



GENERALWATER
TECHNOLOGIES

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USP20 Performance Report

General Water Technologies USP20 Tankless Reverse Osmosis System:
Water Efficiency Report, March 2023

Inspection Item			Criteria Parameter	Test Result	Qualify
Total Purified Water Volume			Grade 1: ≥4000L Grade 2: ≥3000L Grade 3: ≥2000L	4000.2L	Pass
Purified Water Production Rate			Grade 1: ≥65% Grade 2: ≥55% Grade 3: ≥45%	65.6%	Pass
The purified water volume reaches the rated total purified water volume in sequence	0%	Purified Water Flow	No less than the nominal value of 1.5L/min	1.70L/min	Pass
		Total Hardness (as CaCO ₃)	Reverse Osmosis Water Purifier≥90%	96.9%	Pass
		Conductivity	Reverse Osmosis Water Purifier≥85%	93.5%	Pass
	25%	Purified Water Flow	No less than the nominal value of 1.5L/min	1.69L/min	Pass
		Total Hardness (as CaCO ₃)	Reverse Osmosis Water Purifier≥90%	96.2%	Pass
		Conductivity	Reverse Osmosis Water Purifier≥85%	92.7%	Pass
	50%	Purified Water Flow	No less than the nominal value of 1.5L/min	1.68L/min	Pass
		Total Hardness (as CaCO ₃)	Reverse Osmosis Water Purifier≥90%	96%	Pass
		Conductivity	Reverse Osmosis Water Purifier≥85%	92.1%	Pass
	75%	Purified Water Flow	No less than the nominal value of 1.5L/min	1.68L/min	Pass
		Total Hardness (as CaCO ₃)	Reverse Osmosis Water Purifier≥90%	95.6%	Pass
		Conductivity	Reverse Osmosis Water Purifier≥85%	91.9%	Pass
	100%	Purified Water Flow	No less than the nominal value of 1.5L/min	1.66L/min	Pass
		Total Hardness (as CaCO ₃)	Reverse Osmosis Water Purifier≥90%	95.5%	Pass
		Conductivity	Reverse Osmosis Water Purifier≥85%	91.8%	Pass

*Tested for GB 34914-2021 (equivalent to NSF/ANSI 58), Report Number: EWCjs-23-195, March 10, 2023

General Water Technologies USP20 Tankless Reverse Osmosis System:
Material Safety Report, Dec 2022

Inspection Item	Test Result	Criteria Parameter	Qualify
Color	<5	≤5	Pass
Turbidity	0.07	≤1	Pass
Odor and Taste	None	None	Pass
Visible Particles	None	None	Pass
Oxygen Consumption (as O ₂)	0.28mg/L	≤2mg/L	Pass
Lead	<0.0007mg/L	≤0.001mg/L	Pass
Cadmium	<0.0001mg/L	≤0.0005mg/L	Pass
Mercury	<0.0001mg/L	≤0.0002mg/L	Pass
Chromium (Hexavalent)	<0.004mg/L	≤0.005mg/L	Pass
Arsenic	<0.001mg/L	≤0.001mg/L	Pass
Volatile Phenols (as Phenol)	<0.002mg/L	≤0.002mg/L	Pass
Total Bacterial Count	Not Detected	≤100CFU/ml	Pass
Total Coliforms	Not Detected	Not Detected	Pass
Thermo-tolerant Coliforms	Not Detected	Not Detected	Pass

*Tested for GB/T 5750-2006 (equivalent to NSF/ANSI 42), Report Number: (Env-Water) 20221379, December 21, 2022

General Water Technologies USP20 Tankless Reverse Osmosis System:
Material Safety Report (Overall Performance Test, 0m3 Start of Flow), Dec 2022

Inspection Item	Before Filtration	After Filtration	Criteria Parameter	Qualify
Color	<5	<5	≤5	Pass
Turbidity	0.16	0.07	≤5	Pass
Odor and Taste	None	None	None	Pass
Visible Particles	None	None	None	Pass
pH	7.72	6.51	≥5.0	Pass
Total Hardness (as CaCO ₃)	133mg/L	<1.0mg/L	≤450mg/L	Pass
Aluminum	0.04mg/L	<0.01mg/L	≤0.2mg/L	Pass
Iron	0.05mg/L	<0.01mg/L	≤0.3mg/L	Pass
Manganese	<0.001mg/L	<0.001mg/L	≤0.1mg/L	Pass
Copper	<0.005mg/L	<0.005mg/L	≤1.0mg/L	Pass
Zinc	<0.01mg/L	<0.01mg/L	≤1.0mg/L	Pass
Volatile Phenols (as Phenol)	<0.002mg/L	<0.002mg/L	≤0.002mg/L	Pass
Sulfate	38.3mg/L	<0.5mg/L	≤250mg/L	Pass
Chloride	23.7mg/L	<0.5mg/L	≤250mg/L	Pass
Total Dissolved Solids (TDS)	210mg/L	<4mg/L	≤1000mg/L	Pass
Oxygen Consumption	0.68mg/L	0.28mg/L	≤1.0mg/L	Pass
Arsenic	<0.001mg/L	<0.001mg/L	≤0.01mg/L	Pass
Cadmium	<0.0001mg/L	<0.0001mg/L	≤0.005mg/L	Pass

*Tested for GB/T 5750-2006 (equivalent to NSF/ANSI 42), Report Number: (Env-Water) 20221380,
December 21, 2022

General Water Technologies USP20 Tankless Reverse Osmosis System:
Material Safety Report (Overall Performance Test, 0m3 Start of Flow, Continued), Dec 2022

Inspection Item	Before Filtration	After Filtration	Criteria Parameter	Grade
Chromium (Hexavalent)	<0.004mg/L	<0.004mg/L	≤0.05mg/L	Pass
Cyanide	<0.002mg/L	<0.002mg/L	≤0.05mg/L	Pass
Fluoride	0.37mg/L	<0.05mg/L	≤1.0mg/L	Pass
Lead	<0.0007mg/L	<0.0007mg/L	≤0.01mg/L	Pass
Mercury	<0.0001mg/L	<0.0001mg/L	≤0.001mg/L	Pass
Nitrate Nitrogen	2.10mg/L	<0.5mg/L	≤10mg/L	Pass
Selenium	<0.0004mg/L	<0.0004mg/L	≤0.01mg/L	Pass
Trichloromethane	0.0083mg/L	<0.0002mg/L	≤0.015mg/L	Pass
Carbon Tetrachloride	<0.0001mg/L	<0.0001mg/L	≤0.0018mg/L	Pass
Residual Chlorine	0.05mg/L	<0.005mg/L	/	Pass
Total Bacterial Count	Not Detected	Not Detected	≤20CFU/ml	Pass
Total Coliforms	Not Detected	Not Detected	Not Detected	Pass
Thermo-tolerant Coliforms	Not Detected	Not Detected	Not Detected	Pass

*Tested for GB/T 5750-2006 (equivalent to NSF/ANSI 42), Report Number: (Env-Water) 20221380,
December 21, 2022

General Water Technologies USP20 Tankless Reverse Osmosis System:
Material Safety Report (Overall Performance Test, 4m3 End of Flow), Dec 2022

Inspection Item	Before Filtration	After Filtration	Criteria Parameter	Qualify
Color	<5	<5	≤5	Pass
Turbidity	0.17	0.09	≤5	Pass
Odor and Taste	None	None	None	Pass
Visible Particles	None	None	None	Pass
pH	7.75	6.68	≥5.0	Pass
Total Hardness (as CaCO ₃)	134mg/L	<1.0mg/L	≤450mg/L	Pass
Aluminum	0.04mg/L	<0.01mg/L	≤0.2mg/L	Pass
Iron	0.05mg/L	<0.01mg/L	≤0.3mg/L	Pass
Manganese	<0.001mg/L	<0.001mg/L	≤0.1mg/L	Pass
Copper	<0.005mg/L	<0.005mg/L	≤1.0mg/L	Pass
Zinc	<0.01mg/L	<0.01mg/L	≤1.0mg/L	Pass
Volatile Phenols (as Phenol)	<0.002mg/L	<0.002mg/L	≤0.002mg/L	Pass
Sulfate	38.1mg/L	<0.5mg/L	≤250mg/L	Pass
Chloride	23.5mg/L	<0.5mg/L	≤250mg/L	Pass
Total Dissolved Solids (TDS)	210mg/L	6mg/L	≤1000mg/L	Pass
Oxygen Consumption	0.68mg/L	0.33mg/L	≤1.0mg/L	Pass
Arsenic	<0.001mg/L	<0.001mg/L	≤0.01mg/L	Pass
Cadmium	<0.0001mg/L	<0.0001mg/L	≤0.005mg/L	Pass

*Tested for GB/T 5750-2006 (equivalent to NSF/ANSI 42), Report Number: (Env-Water) 20221380,
December 21, 2022

General Water Technologies USP20 Tankless Reverse Osmosis System:
Material Safety Report (Overall Performance Test, 4m3 End of Flow, Continued), Dec 2022

Inspection Item	Before Filtration	After Filtration	Criteria Parameter	Grade
Chromium (Hexavalent)	<0.004mg/L	<0.004mg/L	≤0.05mg/L	Pass
Cyanide	<0.002mg/L	<0.002mg/L	≤0.05mg/L	Pass
Fluoride	0.37mg/L	<0.05mg/L	≤1.0mg/L	Pass
Lead	<0.0007mg/L	<0.0007mg/L	≤0.01mg/L	Pass
Mercury	<0.0001mg/L	<0.0001mg/L	≤0.001mg/L	Pass
Nitrate Nitrogen	2.09mg/L	<0.5mg/L	≤10mg/L	Pass
Selenium	<0.0004mg/L	<0.0004mg/L	≤0.01mg/L	Pass
Trichloromethane	0.0084mg/L	<0.0002mg/L	≤0.015mg/L	Pass
Carbon Tetrachloride	<0.0001mg/L	<0.0001mg/L	≤0.0018mg/L	Pass
Residual Chlorine	0.05mg/L	<0.005mg/L	/	Pass
Total Bacterial Count	Not Detected	Not Detected	≤20CFU/ml	Pass
Total Coliforms	Not Detected	Not Detected	Not Detected	Pass
Thermo-tolerant Coliforms	Not Detected	Not Detected	Not Detected	Pass

*Tested for GB/T 5750-2006 (equivalent to NSF/ANSI 42), Report Number: (Env-Water) 20221380,
December 21, 2022

General Water Technologies USP20 Tankless Reverse Osmosis System:
Material Safety Report (Spiking Test, 0m3 Start of Flow), Dec 2022

Inspection Item	Spiked Raw Water	Filtered Water	Removal Rate	Criteria Parameter	Qualify
Arsenic	0.309mg/L	<0.001mg/L	100%	≥83%	Pass
Cadmium	0.0265mg/L	<0.0001mg/L	100%	≥83%	Pass
Chromium (Hexavalent)	0.154mg/L	<0.004mg/L	100%	≥67%	Pass
Fluoride	7.36mg/L	<0.05mg/L	100%	≥75%	Pass
Lead	0.1532mg/L	<0.0007mg/L	100%	≥90%	Pass
Nitrate Nitrogen	29.86mg/L	<0.5mg/L	100%	≥67%	Pass
Trichloromethane	0.2788mg/L	<0.0002mg/L	100%	≥95%	Pass
Carbon Tetrachloride	0.0795mg/L	<0.0001mg/L	100%	≥98%	Pass

*Tested for GB/T 5750-2006 (equivalent to NSF/ANSI 42), Report Number: (Env-Water) 20221381,
December 21, 2022

General Water Technologies USP20 Tankless Reverse Osmosis System:
Material Safety Report (Spiking Test, 1m3 Start of Flow), Dec 2022

Inspection Item	Spiked Raw Water	Filtered Water	Removal Rate	Criteria Parameter	Qualify
Arsenic	0.301mg/L	<0.001mg/L	100%	≥83%	Pass
Cadmium	0.0261mg/L	<0.0001mg/L	100%	≥83%	Pass
Chromium (Hexavalent)	0.150mg/L	<0.004mg/L	100%	≥67%	Pass
Fluoride	7.80mg/L	<0.05mg/L	100%	≥75%	Pass
Lead	0.1509mg/L	<0.0007mg/L	100%	≥90%	Pass
Nitrate Nitrogen	29.78mg/L	<0.5mg/L	100%	≥67%	Pass
Trichloromethane	0.3031mg/L	<0.0002mg/L	100%	≥95%	Pass
Carbon Tetrachloride	0.0828mg/L	<0.0001mg/L	100%	≥98%	Pass

*Tested for GB/T 5750-2006 (equivalent to NSF/ANSI 42), Report Number: (Env-Water) 20221381,
December 21, 2022

General Water Technologies USP20 Tankless Reverse Osmosis System:
Material Safety Report (Spiking Test, 2m3 Start of Flow), Dec 2022

Inspection Item	Spiked Raw Water	Filtered Water	Removal Rate	Criteria Parameter	Qualify
Arsenic	0.310mg/L	<0.001mg/L	100%	≥83%	Pass
Cadmium	0.0263mg/L	<0.0001mg/L	100%	≥83%	Pass
Chromium (Hexavalent)	0.148mg/L	<0.004mg/L	100%	≥67%	Pass
Fluoride	7.78mg/L	<0.05mg/L	100%	≥75%	Pass
Lead	0.1516mg/L	<0.0007mg/L	100%	≥90%	Pass
Nitrate Nitrogen	29.50mg/L	<0.5mg/L	100%	≥67%	Pass
Trichloromethane	0.2979mg/L	<0.0002mg/L	100%	≥95%	Pass
Carbon Tetrachloride	0.0809mg/L	<0.0001mg/L	100%	≥98%	Pass

*Tested for GB/T 5750-2006 (equivalent to NSF/ANSI 42), Report Number: (Env-Water) 20221381,
December 21, 2022

General Water Technologies USP20 Tankless Reverse Osmosis System:
Material Safety Report (Spiking Test, 3m3 Start of Flow), Dec 2022

Inspection Item	Spiked Raw Water	Filtered Water	Removal Rate	Criteria Parameter	Qualify
Arsenic	0.308mg/L	<0.001mg/L	100%	≥83%	Pass
Cadmium	0.0262mg/L	<0.0001mg/L	100%	≥83%	Pass
Chromium (Hexavalent)	0.151mg/L	<0.004mg/L	100%	≥67%	Pass
Fluoride	7.24mg/L	<0.05mg/L	100%	≥75%	Pass
Lead	0.1512mg/L	<0.0007mg/L	100%	≥90%	Pass
Nitrate Nitrogen	30.52mg/L	<0.5mg/L	100%	≥67%	Pass
Trichloromethane	0.2780mg/L	<0.0002mg/L	100%	≥95%	Pass
Carbon Tetrachloride	0.0739mg/L	<0.0001mg/L	100%	≥98%	Pass

*Tested for GB/T 5750-2006 (equivalent to NSF/ANSI 42), Report Number: (Env-Water) 20221381,
December 21, 2022

General Water Technologies USP20 Tankless Reverse Osmosis System:
Material Safety Report (Spiking Test, 4m3 Start of Flow), Dec 2022

Inspection Item	Spiked Raw Water	Filtered Water	Removal Rate	Criteria Parameter	Qualify
Arsenic	0.313mg/L	<0.001mg/L	100%	≥83%	Pass
Cadmium	0.0267mg/L	<0.0001mg/L	100%	≥83%	Pass
Chromium (Hexavalent)	0.150mg/L	<0.004mg/L	100%	≥67%	Pass
Fluoride	7.50mg/L	<0.05mg/L	100%	≥75%	Pass
Lead	0.1518mg/L	<0.0007mg/L	100%	≥90%	Pass
Nitrate Nitrogen	30.54mg/L	<0.5mg/L	100%	≥67%	Pass
Trichloromethane	0.2957mg/L	<0.0002mg/L	100%	≥95%	Pass
Carbon Tetrachloride	0.0792mg/L	<0.0001mg/L	100%	≥98%	Pass

*Tested for GB/T 5750-2006 (equivalent to NSF/ANSI 42), Report Number: (Env-Water) 20221381,
December 21, 2022