

PERFORMANCE DATA SHEET

Kinetico Water Conditioning Systems

Model/Product Numbers

2030s (11020)
2040s OD (11120)
2060s (11006)
2060s OD (11201)
2100s (11032)
2100s OD (11128)
2175s (11036)
4040s OD (11057)
4060s OD w/carbon (11215)
4060s OD w/Macrolite® (11223)



The Kineticico Water Conditioning Systems are tested and certified by NSF International and/or the Water Quality Association (WQA) under NSF/ANSI Standard 44 for performance and reduction of barium and radium. In addition, the materials and components used in the construction of these systems have been tested by NSF International and/or the Water Quality Association (WQA) to assure that levels of extractable contaminants do not exceed established limits set by NSF/ANSI Standard 44. They have also been evaluated under Standard 44 to assure that they are designed and constructed so their intended purpose can be accomplished when installed and operated in accordance with the manufacturer's instructions.

IMPORTANT

- Installation of this product must comply with state and local plumbing laws.
- Provisions for an antisiphon air gap should be part of the installation to prevent a cross connection between the water system and the waste system.
- Waste connections or drain outlets shall be designed and constructed to provide for connection to the sanitary water system through an air gap of 2 pipe diameters or 1 inch (25mm) whichever is larger.
- Do not use on water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system, or that contains high concentrations of sediment, dirt or other suspended matter without additional treatment steps.
- Read this performance data sheet and compare the capabilities of this unit with your actual water treatment needs.
- It is recommended that before purchasing a water treatment unit, you have your water supply tested to determine your actual water treatment needs.
- The reduction of barium and radium 226/228 is directly related to the softening performance of your system. Have your system tested for hardness reduction every few months to assure the system is softening properly. Please note that barium and radium are not necessarily in your water supply.
- For operation and maintenance information, consult the product owner's manual. Installation instructions are available for review from your authorized Kineticico Dealer.
- Kineticico recommends the use of a quality grade pure salt (sodium chloride) processed especially for water conditioners.
- Water conditioners using sodium chloride for regeneration add sodium to the water. Persons who are on sodium restricted diets should consider the added sodium as part of their overall sodium intake.
- An efficiency rated water softener is a DIR softener which also complies with specific performance specifications intended to minimize the amount of regenerant brine and water used in its operation. These softeners shall have a rated salt efficiency of not less than 3350 grains of total hardness exchanged per pound (477 grams per kilogram) of salt (based on NaCl equivalency) and shall not deliver more salt than its listed rating. The efficiency is valid only at the low salt dosage and is measured by a laboratory test described in NSF/ANSI Standard 44. The test represents the maximum possible efficiency that the system can achieve. Operational efficiency is the actual efficiency achieved after the system has been installed. It is typically less than the efficiency due to individual application factors including water hardness, water usage, and other contaminants that reduce the softener's capacity.

CONTAMINANT REDUCTION CAPABILITIES

IMPORTANT NOTICE! Read this performance data sheet and compare the capabilities of this unit with your actual water treatment needs. It is recommended that before purchasing a water treatment unit, you have your water supply tested to determine your actual water treatment needs. Please note that barium and radium are not necessarily in your water and that while testing was performed under standard laboratory conditions, actual performance may vary. The system has been tested according to NSF/ANSI Standard 44 for reduction of barium and radium 226/228. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI Standard 44. The charts on the following pages list the specifications and reduction capabilities by model and contain the following information based on NSF test results:

- The percent of reduction that can be expected
- Conditions under which the units were tested (pressure, pH and temperature)
- Influent and effluent levels of contaminated tested water
- The USEPA's maximum contaminant level (MCL)

SPECIFICATIONS:

Minimum/Maximum Operating Pressure: 103.4-861.9 kPa (15-125 psi)
172.3-861.9 kPa (25-125 psi) for 2175s
Maximum Working Pressure: 861.9 kPa (125 psi)
Minimum/Maximum Operating Temperature: 2°C-49°C (35°F-120°F)

MODEL	2030s		2040s OD	2060s	
Service flow rate at 15 psi (or less) drop gpm	9 (34.1 L/min)		11 (41.6 L/min)	11.6 (43.5 L/min)	
Resin per tank, cu. ft.	0.47		0.4	0.7	
Capacity per cycle, grains	7867	9802	5222	12, 481	15, 817
Grains exchanged per pound of salt	4371*	3630	5222*	4623*	3954
Salt used per cycle, lbs.	1.8†	2.7	1.0	2.7	4.0
Max flow rate to drain during regeneration, gpm	0.69 (2.6 L/min)		1.5 (5.7 L/min)	2.5 (9.5 L/min)	

MODEL	2060s OD		2100s	2100s OD	2175s			
Service flow rate at 15 psi (or less) drop gpm	20.5 (77.6 L/min)		12 (45.4 L/min)	21 (79.5 L/min)	16.4 (62.1 L/min)			
Resin per tank, cu. ft.	0.7		1.5	1.5	2.25			
Capacity per cycle, grains	12,481	15,813	25,253	41,087	25,253	41,087	65,139	81,845
Grains exchanged per pound of salt	4622*	3953	4591*	4109*	4591*	4108*	4343*	5303
Salt used per cycle, lbs.	2.7	4.0	5.5	10.0	5.5	10.0	6.8	13.6
Max flow rate to drain during regeneration, gpm	2.2 (8.3 L/min)		3.3 (12.5 L/min)	3.2 (12.1 L/min)	4.8 (18.2 L/min)			


MODEL	4040s OD		4060s OD w/carbon**		4060s OD w/Macrolite**	
Service flow rate at 15 psi (or less) drop gpm	11 (41.6 L/min)		11(41.6L/min)		10 (37.9 L/min)	
Resin per tank, cu. ft.	upper 0.4 resin	lower 0.4 carb	upper carb 0.25	lower resin 0.7	upper cer 0.2	lower resin 0.7
Capacity per cycle, grains	4921		13715		14883	
Grains exchanged per pound of salt	4921*		3429		3383	
Salt used per cycle, lbs.	1.0		4.0		4.4	
Max flow rate to drain during regeneration, gpm	3.6 (11.4 L/min)		3.0 (11.4 L/min)		2.5 (9.5 L/min)	

* Meets California requirements of 4000 grains exchanged per pound of salt used. Efficiency is only certified at the low salt dosage and was determined in accordance with NSF/ANSI Std. 44.

** Products not certified or for sale in the State of California

† This salt setting not WQA validated

Kineticico Water Conditioners are tested and certified by NSF International to the requirements of NSF/ANSI Standard 44 for softener performance and chemical reduction of barium and radium 226/228.



Contaminant Reduction Capability

Read this performance data sheet and compare the capabilities of this unit with your actual water treatment needs. Please note that barium and radium are not necessarily in your water. It is recommended that, before purchasing a water treatment unit, you have your water supply tested to determine your actual water treatment needs. These charts contain information based on test results for the reduction of barium and radium 226/228. Hardness is used in the test water to verify this reduction.

Kineticico 2175s	Barium	Radium
Test Pressure	35 psi	35 psi
Flow Rate	16.4 gpm	16.4 gpm
Temperature	65°F	65°F
pH	7.5	7.5
Influent Level	10 mg/L ± 10%	25 pCi/L ± 10%
Effluent Level	2.0	5pCi/L
Percent Reduction	80	80
EPA Max. Allowable Product Water Level	2.0mg/L	5 pCi/L

Kineticico 2030s	Barium	Radium
Test Pressure	35 psi	35 psi
Flow Rate	9 gpm	9 gpm
Temperature	65°F	65°F
pH	7.5	7.5
Influent Level	10mg/L ± 10%	25 pCi/L ± 10%
Effluent Level	2.0	5pCi/L
Percent Reduction	80	80
EPA Max. Allowable Product Water Level	2.0mg/L	5 pCi/L

Kineticico 2040s OD/ 4040s OD	Barium	Radium
Test Pressure	35 psi	35 psi
Flow Rate	7 gpm/11 gpm	7 gpm/11 gpm
Temperature	65°F	65°F
pH	7.5	7.5
Influent Level	10mg/L ± 10%	25 pCi/L ± 10%
Effluent Level	2.0	5pCi/L
Percent Reduction	80	80
EPA Max. Allowable Product Water Level	2.0mg/L	5 pCi/L

Kineticico 2060s / 2060s OD	Barium	Radium
Test Pressure	35 psi	35 psi
Flow Rate	11.6 gpm/20 gpm	11.6 gpm/20 gpm
Temperature	65°F	65°F
pH	7.5	7.5
Influent Level	10mg/L ± 10%	25 pCi/L ± 10%
Effluent Level	2.0	5pCi/L
Percent Reduction	80	80
EPA Max. Allowable Product Water Level	2.0mg/L	5 pCi/L

Kineticico 4060s OD Carbon*/ 4060s OD Macrolite*	Barium	Radium
Test Pressure	35 psi	35 psi
Flow Rate	11gpm/10 gpm	11gpm/10 gpm
Temperature	65°F	65°F
pH	7.5	7.5
Influent Level	10mg/L ± 10%	25 pCi/L ± 10%
Effluent Level	2.0	5pCi/L
Percent Reduction	80	80
EPA Max. Allowable Product Water Level	2.0mg/L	5 pCi/L

Kineticico 2100s/ 2100s OD	Barium	Radium
Test Pressure	35 psi	35 psi
Flow Rate	12 gpm/21 gpm	12 gpm/21 gpm
Temperature	65°F	65°F
pH	7.5	7.5
Influent Level	10mg/L ± 10%	25 pCi/L ± 10%
Effluent Level	2.0	5pCi/L
Percent Reduction	80	80
EPA Max. Allowable Product Water Level	2.0mg/L	5 pCi/L

* Products not certified or saleable in the State of California