



## Industrial Water Purification

# Service Deionizer Model 1252-FG 3 to 10 GPM 3.3 Ft<sup>3</sup>

The Cal Water **1252-FG** deionizer is one of the most efficient service units in its class. Its efficiency is due to its high column length-to-diameter. This high aspect ratio (4.2:1) allows the 1252-FG to out perform larger units in total product water. The internals are designed to allow wide variations in flow rates with little sacrifice in capacity due to channeling.

*All Cal Water service deionizers are regenerated in a **computer controlled** regeneration plant. Computer control provides more consistent quality at lower cost, while storing all regeneration results electronically. This stored data can be retrieved and used to provide QC reports upon customer request.*

## FEATURES

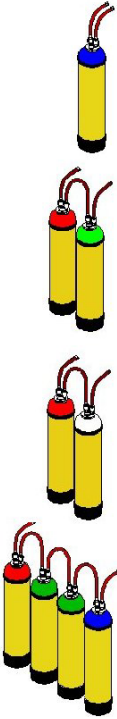


**1252-FG**  
Mixed Bed Deionizer

- The Cal Water 1252-FG portable exchange service deionizer is a corrosion-proof, FRP fiberglass tank with an inert ABS plastic liner and a rubber base.
- Both the inlet and outlet hardware of the 1252-FG deionizer tank are made of the same ABS plastic as the tank liner.
- The 1252-FG deionizer contains 3.3 cubic feet of water purification media.
- Every 1252-FG deionizer system comes equipped with a red-green water quality indicator as standard equipment. (Several brands of TDS meters are available as options.)
- The top of every 1252-FG deionizer unit is protected by a ¼" rubber bumper band to prevent leaks from cracks at the top seam.
- The unit is equipped with Cam-Lock connectors fitted with molded seals for positive connections.
- All Cal Water deionizer tanks are color coded to assure that the correct tank goes into the correct position every time a system is exchanged.

**For More Information Please Call  
1(800)CAL-WATER - (800) 225-9283**

## FOUR BASIC DEIONIZER CONFIGURATIONS



**Mixed bed.** Mixed bed deionizers are single units containing both cation and strong base anion resins mixed in a single vessel. Mixed beds produce the highest quality water that typically ranges from 200,000 to 18,000,000 ohms/cm<sup>3</sup>.

**Two-bed strong base.** Strong base deionizers are two tank systems that produce an average water quality of 150,000 ohms/cm<sup>3</sup> with a pH of over 7. Strong base units remove silica and carbon dioxide from the water and are good general-purpose systems.

**Two-bed weak base.** Weak base deionizers are two tank systems that produce an average deionized water quality of over 50,000 ohms/cm<sup>3</sup> with a pH under 7. Weak base units do not remove silica or carbon dioxide from the water, but they are inexpensive and if properly applied, are very useful and cost effective.

**Multi-bed systems.** These combination systems (3 or more units) provide the efficiency and low cost of two bed deionizers with the high purity yielded by mixed bed units to produce large quantities of low cost, high purity water.

## FLOW RATES AND CAPACITIES

System	Type	Configuration	Flow Rate GPM	Ft <sup>3</sup> / System	Capacity		Water Quality In Ohms/cc	Water Quality Microsiemens
					Grains	Gallons*		
Single	Mixed Bed	M	8	3.3	24,750	1,411	200K - 10 meg	5 - 0.1
	Mixed Bed (HP)	M(HP)	10	3.3	22,275	1,270	10 - 18 meg	0.1 - 0.056
Double	Mixed Bed	M-M	9	6.6	49,500	2,822	200K - 10 meg	5 - 0.1
	Mixed Bed (HP)	M(HP)-M(HP)	9	6.6	44,550	2,539	12 - 18 meg	0.083 - 0.056
	Weak Base**	C-W	6	6.6	85,800	4,891	20-50 kilo	50 - 20
	Strong Base	C-S	9	6.6	56,100	3,198	50-200 kilo	20 - 5
Triple	Mixed Bed	C-S-M	9	9.9	80,850	4,608	200K - 10 meg	5 - 0.1
	Mixed Bed (HP)	C-S-M(HP)	9	9.9	78,375	4,467	16 - 18 meg	0.063 - 0.056
	Weak Base**	C-C-W	6	9.9	198,000	11,286	20-50 kilo	50 - 20
	Strong Base	C-S-S	9	9.9	112,200	6,395	50-200 kilo	20 - 5
Multi- (4-bed+)	Mixed Bed	C-S-S-M	8	13.2	136,950	7,806	200K - 10 meg	5 - 0.1
	Mixed Bed (HP)	C-S-M(HP)-M(HP)	8	13.2	100,650	5,737	16 - 18 meg	0.063 - 0.056

\*Gallon capacities and water quality shown are based on 300 ppm feed. \*\*Weak base systems are limited to 2 GPM/Ft<sup>3</sup> to achieve maximum capacity. Maximum inlet pressure to all systems is 80 psi. Maximum inlet temperature is 90°F.

**Warranty:** Cal Water guarantees labor and material for 1 year from the date of an installation. In case of defect in equipment, labor, material or service, Cal-Water's sole responsibility is for the replacement or repair of the defect and cannot be held liable for losses of any kind. (Please see Terms and Conditions of Sale)

**Cal Water**, 1961 Petra Lane, Placentia, CA 92870  
**(800) CAL-WATER** (800) 225-9283  
 FAX: (714) 792-0794  
 Web Page / Email: [www.cal-water.com](http://www.cal-water.com)

Orange County (714) 835-7878  
 Los Angeles County (323) 663-8335  
 San Diego County (858) 457-8411

# Service Deionizer Model 1447-FG 4 to 15 GPM 3.6 Ft<sup>3</sup>

## Industrial Water Purification

The **1447-FG** service deionizer by Cal Water is the industry standard for medium to high flow rates service units. The 1447-FG is used in a wide variety of applications in place of expensive installed automatic and EDI equipment. The internals of the 1447-FG are designed to allow wide variations in flow rates with little sacrifice in capacity due to channeling.

*All Cal Water service deionizers are regenerated in a **computer controlled** regeneration plant. Computer control provides more consistent quality at lower cost, while storing all regeneration results electronically. This stored data can be retrieved and used to provide QC reports upon customer request.*

## FEATURES

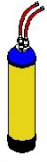


**1447-FG**  
Mixed Bed Deionizer

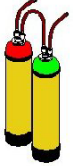
- The Cal Water 1447-FG portable exchange service deionizer is a corrosion-proof, FRP fiberglass tank with an inert ABS plastic liner and a rubber base.
- Both the inlet and outlet hardware of the 1447-FG deionizer tank are made of the same ABS plastic as the tank liner.
- The 1447-FG deionizer contains 3.6 cubic feet of water purification media.
- Every 1447-FG deionizer system comes equipped with a red-green water quality indicator as standard equipment. (Several brands of TDS meters are available as options.)
- The top of every 1447-FG deionizer unit is protected by a ¼" rubber bumper band to prevent leaks from cracks at the top seam.
- The connections are 1¼ turn unions with 'O' ring seals for positive connections.
- All Cal Water deionizer tanks are color coded to assure that the correct tank goes into the correct position every time a system is exchanged.

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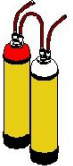
## FOUR BASIC DEIONIZER CONFIGURATIONS



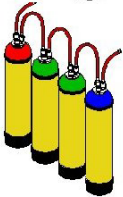
**Mixed bed.** Mixed bed deionizers are single units containing both cation and strong base anion resins mixed in a single vessel. Mixed beds produce the highest quality water that typically ranges from 200,000 to 18,000,000 ohms/cm<sup>3</sup>. It is particularly useful in providing high purity water to single points of use.



**Two-bed strong base.** Strong base deionizers are two tank systems that produce an average water quality of 150,000 ohms/cm<sup>3</sup> with a pH of over 7. Strong base units remove silica and carbon dioxide from the water and are good general-purpose systems.



**Two-bed weak base.** Weak base deionizers are two tank systems that produce an average deionized water quality of over 50,000 ohms/cm<sup>3</sup> with a pH under 7. Weak base units do not remove silica or carbon dioxide from the water, but they are inexpensive and if properly applied, are very useful and cost effective.



**Multi-bed systems.** These combination systems (3 or more units) provide the efficiency and low cost of two bed deionizers with the high purity yielded by mixed bed units to produce large quantities of low cost, high purity water.

## FLOW RATES AND CAPACITIES

System	Type	Configuration	Flow Rate GPM	Ft <sup>3</sup> / System	Capacity		Water Quality In Ohms/cc	Water Quality Microsiemens
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Single	Mixed Bed	M	12	3.6	27,000	1,539	200K - 10 meg	5 - 0.1
	Mixed Bed (HP)	M(HP)	15	3.6	24,300	1,385	10 - 18 meg	0.1 - 0.056
Double	Mixed Bed	M-M	10	7.2	54,000	3,078	200K - 10 meg	5 - 0.1
	Mixed Bed (HP)	M(HP)-M(HP)	10	7.2	48,600	2,770	12 - 18 meg	0.083 - 0.056
	Weak Base**	C-W	7	7.2	93,600	5,335	20-50 kilo	50 - 20
	Strong Base	C-S	9	7.2	61,200	3,488	50-200 kilo	20 - 5
Triple	Mixed Bed	C-S-M	10	10.8	88,200	5,027	200K - 10 meg	5 - 0.1
	Mixed Bed (HP)	C-S-M(HP)	10	10.8	85,500	4,874	16 - 18 meg	0.063 - 0.056
	Weak Base**	C-C-W	7	10.8	216,000	12,312	20-50 kilo	50 - 20
	Strong Base	C-S-S	10	10.8	122,400	6,977	50-200 kilo	20 - 5
Multi- (4-bed+)	Mixed Bed	C-S-S-M	9	14.4	149,400	8,516	200K - 10 meg	5 - 0.1
	Mixed Bed (HP)	C-S-M(HP)-M(HP)	9	14.4	109,800	6,259	16 - 18 meg	0.063 - 0.056

\*Gallon capacities and water quality shown are based on 300 ppm feed. \*\*Weak base systems are limited to 2 GPM/Ft<sup>3</sup> to achieve maximum capacity. Maximum inlet pressure to all systems is 80 psi. Maximum inlet temperature is 90°F.

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