



Including water treatment in your plans?

Culligan saves you time and money...

Culligan

better water. pure and simple.™



Look for this logo throughout the catalog for 'GREEN' products

Our Extensive Nationwide Dealer Network and Local Support Team Offers:

- Access to all the specification for projects you are currently working on
- Price quotes for water treatment available immediately
- Computer Aided Application Program and electronic product catalog that includes: design data, engineering specifications, detailed technical drawings, and product brochures
- Application engineers who generate specific design data, engineer specifications, and detailed technical drawings to meet your needs
- Complete program implementation by qualified technicians:
 - Product Installation
 - Set and Load Services
 - Start-Up Services
- Educational programs through personalized seminars



Complete line of water treatment for any application

Soft Water

- Reduces water heating costs and equipment wear
- Uses less soaps and chemicals allowing them to work more effectively
- Reduces spotting on glasses and flatware
- Linens and towels are softer and brighter

Filtered Water

- Tastes and odors can be substantially reduced and in many cases completely eliminated
- Removes sediment from water supply before it can damage water using appliances

Reverse Osmosis

- Great for boiler feed, spot free rinse, laboratory use, and substantial reduction of many contaminants
- Improved taste and clearer ice cubes

Deionization

- Another method of providing high quality water using exchange tanks or on-site regeneration equipment
- Provides high quality process water for consistent manufacturing

Dealkalizers

- Reduce unwanted anions in the water supply
- Helps reduce cycles of concentration in boilers

Bottle-less Coolers/Drinking Water

- Offers businesses an automatic supply of quality drinking water while eliminating the need to store, lift, or replace water bottles

Services

Analytical Lab

- Culligan has the expertise to provide the highest quality water analysis through an in-house NELAP lab*.

Application Engineers for Expert Consultation

- No application is too complex. Culligan Application Engineers team up with your local dealer to review all specifications and requirements for your unique water treatment solution.

Online and CD-ROM Support

- Helpful up-to-date product specifications and detailed service information is available at Culligancommercial.com, or ask your dealer for the “Commercial Applications Solutions” CD.

Outstanding Product Warranties

- Worry-free products built to last. Our product warranties are the best in the business.

Service Agreements

- We make sure your water treatment equipment is performing as efficiently as possible. Service agreements, salt delivery, or filter changes ensure your water treatment equipment is properly maintained resulting in longer lasting, more efficient equipment.

Factory-Trained Installation and Service Technicians

- Culligan Master Service Technicians properly install and maintain your equipment reducing the risk of unexpected equipment down time.

Salt Delivery

- Let us deliver salt right to your softener. We'll develop a delivery schedule to provide a steady supply of salt so you experience soft water every day of the year.

Leasing and Financing Options

- We offer three flexible options: purchase, rental, and leasing plans including ongoing maintenance for affordable financing and a faster return on investment.



* The Culligan Analytical Laboratory is certified by the State of Illinois EPA to be compliant with the National Environmental Laboratory Accreditation Program (NELAP) standards. The lab is also certified by the States of California, Iowa, New York, Texas, and Wisconsin.



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Culligan's water softening product line is the best in the industry. Capable of satisfying flow rates from less than 1 or as great as 2,400 gallons per minute, Culligan offers the most complete water softening product line with the most advanced technologies in the industry.



Hi-Flo® 22

Culligan's MVP™ Controller with Progressive Flow. Progressive Flow allows Culligan to provide water softening systems sized appropriately for your business. This patented technology allows smaller tanks to be used in applications where high flow rates are required but inconsistent or periodic. The MVP™ technology constantly looks at the water demand and brings additional water softening tanks online or offline as the flow demand increases or decreases.

Having equipment that has been properly sized and capable of being used only when necessary will save initial investment money as well as operating expenses.



Soft-Minder®
Twin Plus

Culligan® Brine Reclaim System. The Culligan® Brine Reclaim system works in conjunction with Culligan's MVP™ controller to provide 25% or more in salt savings. By reclaiming a portion of the brine used to regenerate the water softener, not only will your salt consumption be reduced but less water will be used. One of the best features of the Culligan® Brine Reclaim system is that it can be retrofitted to many medium and large sized commercial water softening systems.



CSM™

Aqua-Sensor®. Culligan's patented Aqua-Sensor® technology initiates regeneration only when required. When paired with the MVP™ controller and the Culligan® Brine Reclaim system, your Culligan water softener becomes the world's most efficient commercial grade water softener!

Commercial Softening Systems

HI-FLO® 22. Perfect for small to medium sized applications, the HI-FLO® 22 uses the Culligan's MVP™ controller. Culligan's Aqua-Sensor® technology is also an optional feature.

SoftMinder® Twin Plus. Duplex fiberglass tank units providing flow rates up to 40 gpm, these softeners only require one control valve for operation. System hardness removal capacities range from 60,000 to 180,000 grains.

HI-FLO® 3. Fiberglass tanks with reliable brass control valves make this a low featured but very price competitive product line. Good for small and mid sized commercial and industrial applications, the HI-FLO® 3 is available with time clock controls only.

HI-FLO® 3e. Another great product line that utilizes the MVP™ control. The brass, top mounted control valve reduces the amount of piping associated with installation. Available in 2" valve sizes, the HI-FLO® 3e can also be outfitted with the Culligan® Brine Reclaim system.

CSM™. An acronym for Commercial Side Mount, the CSM series uses a side-mounted control valve that is easy to install and service. Another product that uses the MVP™ control and can be outfitted with the Culligan® Brine Reclaim system, the CSM line can provide flow rates up to a peak of 1,602 gallons per minute.

HI-FLO® 50. Our largest industrial grade system comes standard with 3" or 4" valving. Uses a side mounted valve nest for simplified installation and service, the HI-FLO® 50 is available with up to 67 cubic feet of resin for a hardness removal capacity up to 2 million grains. Larger softeners are available by special order.

Softeners Specifications

Product Line	Model	Capacity (gr (l))			Flow, gpm			Back Wash Flow, gpm	Pipe Size, in		Resin Qty, # ³	Tank Size, in	Brine Tank Size, in (4)	Dimensions, in (5)			ASME Height Adder	Weight, lbs		
		Maximum	Standard	Minimum	Continuous	Peak	Minimum		Service	Drain (3)				Single	Duplex	Triplex		Shipping	Operations	
HFFlo 22	WS060	60,000	50,000	40,000	29@15	37@25	2.1	5	1.5	0.75	2	14x47	18x38	39x19x57	62x19x57	85x19x57	N/A	245	842	
	WS090	90,000	75,000	60,000	29.5@15	38@25	2.8	6	1.5	0.75	3	16x53	24x42	47x24x63	110x24x63	173x24x63	N/A	341	1235	
	WS120	120,000	100,000	80,000	27@15	35@25	2.8	7	1.5	0.75	4	16x65	24x42	47x24x75	122x24x75	197x24x75	N/A	412	1379	
	WS150	150,000	125,000	100,000	33.5@15	45@25	4.8	12	1.5	1	5	21x54	24x50	50x24x65	115x24x65	180x24x65	N/A	524	1578	
	WS210	210,000	175,000	140,000	33@15	42@25	4.8	12	1.5	1	7	21x69	24x50	50x24x79	129x24x79	208x24x79	N/A	665	1950	
	SMF185	90,000	75,000	60,000	30@15	40@25	2.14	5	1.5	1	3	14x65	24x42	N/A	60x24x76	N/A	N/A	N/A	600	1600
	SMF245	120,000	100,000	80,000	30@15	40@25	2.8	7	1.5	1	4	16x65	24x42	N/A	64x24x74	N/A	N/A	N/A	680	1750
	SMF365	180,000	150,000	120,000	30@15	40@25	4.4	12	1.5	1	6	21x69	24x48	N/A	78x24x80	N/A	N/A	N/A	815	2000
	HC601.5	60,000	50,000	40,000	22@15	29@25	1.6	3.5	1.5	0.75	2	12x52	18x38	37x19x60	57x19x60	77x19x60	N/A	255	800	
	HC901.5	90,000	75,000	60,000	29@15	37@25	2.1	5	1.5	0.75	3	14x65	24x42	45x24x72	67x24x72	89x24x72	N/A	345	1255	
HFFlo 3	HC1201.5	120,000	100,000	80,000	29@15	37@25	2.8	8	1.5	1	4	16x65	24x42	47x24x72	71x24x72	95x24x72	N/A	440	1405	
	HC1501.5	150,000	125,000	100,000	40@15	55@25	4.4	12	1.5	1	5	21x54	24x42	50x24x66	79x24x66	108x24x66	N/A	530	1585	
	HC1202	120,000	100,000	80,000	45@15	60@25	2.8	8	2	1	4	16x65	24x42	45x24x76	69x24x76	93x24x76	N/A	465	1630	
	HC1502	150,000	125,000	100,000	60@15	78@25	4.4	12	2	1	5	21x54	24x48	50x24x66	82x24x66	114x24x66	N/A	555	1810	
	HC2102	210,000	175,000	140,000	58@15	76@25	4.4	8	2	1	7	21x69	24x48	50x24x82	82x24x82	114x24x82	N/A	680	1970	
	HC3002	300,000	250,000	200,000	65@15	85@25	6.2	15	2	1	10	24x72	30x48	60x30x84	93x30x84	126x30x84	N/A	935	2775	
	HC4502	450,000	375,000	300,000	75@15	100@25	9.8	25	2	1	15	30x72	30x48	65x30x92	104x30x92	143x30x92	N/A	1420	3580	
	HCE1202	120,000	100,000	80,000	45@15	60@25	2.8	8	2	1	4	16x65	24x42	45x24x76	69x24x76	93x24x76	N/A	465	1630	
	HCE1502	150,000	125,000	100,000	60@15	78@25	4.4	12	2	1	5	21x54	24x48	50x24x66	82x24x66	114x24x66	N/A	555	1810	
	HCE2102	210,000	175,000	140,000	58@15	76@25	4.4	8	2	1	7	21x69	24x48	50x24x82	82x24x82	114x24x82	N/A	680	1970	
HFFlo 3e	HCE3002	300,000	250,000	200,000	65@15	85@25	6.2	15	2	1	10	24x72	30x48	60x30x84	93x30x84	126x30x84	N/A	935	2775	
	HCE4502	450,000	375,000	300,000	75@15	100@25	9.8	25	2	1	15	30x72	30x48	65x30x92	104x30x92	143x30x92	N/A	1420	3580	
	CSM1502	150,000	125,000	100,000	67@15	94@25	4.4	10	2	0.75	5	20x54	24x48	56x31x73	88x31x73	120x31x73	3	830	2500	
	CSM2102	210,000	175,000	140,000	76@15	102@25	6.2	13.5	2	1	7	24x54	24x48	60x35x74	95x35x74	130x35x74	4	1115	2900	
	CSM3002	300,000	250,000	200,000	84@15	112@25	9.8	20	2	1	10	30x60	30x48	72x42x85	114x42x85	156x42x85	5	1580	3900	
	CSM3003	300,000	250,000	200,000	152@15	210@25	9.8	20	3	1	10	30x60	30x48	72x44x85	114x44x85	156x44x85	5	1630	4000	
	CSM4502	450,000	375,000	300,000	79@15	106@25	9.8	20	2	1	15	30x60	30x48	72x42x85	114x42x85	156x42x85	5	1940	4700	
	CSM4503	450,000	375,000	300,000	135@15	192@25	9.8	20	3	1	15	30x60	30x48	72x44x85	114x44x85	156x44x85	5	1990	4800	
	CSM6002	600,000	500,000	400,000	94@15	125@25	14.2	30	2	1	20	36x60	36x48	84x48x88	132x48x88	180x48x88	7	2585	7000	
	CSM6003	600,000	500,000	400,000	183@15	252@25	14.2	30	3	1	20	36x60	36x48	84x50x88	132x50x88	180x50x88	7	2635	7100	
CSM	CSM7502	750,000	625,000	500,000	97@15	129@25	19.2	45	2	2.5	25	42x60	42x48	96x54x90	150x54x90	204x54x90	3	3390	8400	
	CSM7503	750,000	625,000	500,000	201@15	267@25	19.2	45	3	2.5	25	42x60	42x48	96x56x90	150x56x90	204x56x90	3	3440	8500	
	CSM9002	900,000	750,000	600,000	96@15	127@25	19.2	45	2	2.5	30	42x60	42x48	96x54x90	150x54x90	204x54x90	3	3650	9000	
	CSM9003	900,000	750,000	600,000	193@15	259@25	19.2	45	3	2.5	30	42x60	42x48	96x56x90	150x56x90	204x56x90	3	3700	9000	
	HST1203	1,200,000	1,000,000	800,000	150@8	230@15	25.2	60	3	1.5	40	48x60	48x60	108x65x93	168x65x93	228x65x93	N/A	5800	12800	
	HST1503	1,500,000	1,250,000	1,000,000	160@7	230@14	31.8	70	3	1.5	50	54x60	48x60	114x71x96	180x71x96	246x71x96	N/A	7400	15400	
	HST1504	1,500,000	1,250,000	1,000,000	190@6	320@15	31.8	70	4	1.5	50	54x60	48x60	114x73x96	180x73x96	246x73x96	N/A	7800	15800	
	HS2004	2,000,000	1,666,667	1,333,333	240@7	400@18	39.2	90	4	1.5	67	60x60	60x60	132x78x98	204x78x98	276x78x98	N/A	9600	20900	

1) Capacity is based on treating water with 10 grains per gallon total hardness as CaCO₃ and free of color, oil, turbidity, and at 50% of the peak flow rate specified.
 2) Peak flow rates are not recommended for extended periods of time. Operating at peak flow rates may cause hardness leakage into treated water flow.
 3) Based on 50 psi line pressure, 25 ft. drain line with maximum 5 fittings and drain located no more than 4 ft. above valve drain outlet.
 4) Denotes that some brine systems are optional. Multiple sizes are available for most systems. Size shown is size most often selected for the system shown. Consult your Culligan dealer for brine system choices available.
 5) Dimensions do not include space for maintenance. It is recommended that a minimum 24" of free space be provided above the water softener and a minimum of 6" around all sides.



Hi-Flo® 22



CSM™



Hi-FLO® 50



POU Filter

Whether your filtering water to reduce sediment, taste and odors or organics, Culligan has the product to fit your need.

Cullar® Carbon Filters

Cullar® activated carbon, manufactured from select grades of bituminous coal, provides chlorine and organic reduction as well as some particle filtration. Cullar® media is a durable product that withstands the abrasion associated with repeated back washing and provides an exceptionally high internal surface area with optimum pore sizes to effectively absorb a broad range of high and low molecular weight organic compounds.

Depth Filters

A mixed media filter using specially selected grades of anthracite, sand and garnet. The coarsest, lightest media occupies the top of the media bed while finer, heavier media is at the bottom. The different sizes and densities of materials combine to retain solids as small as 10 micron from entering the treated water supply.

Iron Filters

A filter using manganese green sand and anthracite to filter out oxidized iron.

Food Service Filters

Filters are available for point-of-use (POU) applications such as fountain beverage, ice making, or coffee. Cyst reduction down to 0.5 micron available. Cartridges are NSF listed.

General Product Features

- Tank sizes range from 12" through 60" diameter. Larger sizes are available by special order.
- 1 1/2", 2", 3" and 4" valve sizes with flow capabilities up to 300 gallons per minute per tank. The flow can be as great as 1800 gallons per minute using the Progressive Flow capability of Culligan's MVP™ controller.
- Choice of top or side mounted control valves.
- Full flow valve porting for greatest water flow capabilities.
- Culligan 24 volt MVP™ controller used with most systems.
- Tank choices include steel, ASME code steel and fiberglass.

Specific Features

- MVP™ provides progressive flow capability (units are brought online and offline as facility flow demand increases or decreases).
- The initiation of regeneration is user choice of time, flow, meter, differential pressure switch, or user intervention (such as push button).



Cullar® Filters

Product Line	Tank Constr (1)	Model	Flow Rates, gpm			Tank Size, in	ASME Height Adder	Pipe Size, in		Media Qty, ft ³ (2)	Dimensions, in (3)			Weight, lbs	
			Normal	Peak	Back Wash			Service	Drain		Width	Height (4)	Depth	Shipping	Operations
Hi-Flo 22	FRP	CF-12	4@0.5	8@1	8	12x52	N/A	1.5	1	2	12	59	17	175	230
	FRP	CF-14	5@0.5	11@1.5	10	14x47	N/A	1.5	1	3	14	75	19	240	365
	FRP	CF-16	7@1	14@2	15	16x53	N/A	1.5	1	3	16	75	21	275	465
	FRP	CF-21	12@2	24@7	25	21x54	N/A	1.5	1	6	23	65	26	510	615
Hi-Flo 42F	FRP	HRF-20	12@1.5	24@4	20	21x69	N/A	2	1.5	6	21	86	21	470	562
	FRP	HRF-24	16@2	31@4	30	24x72	N/A	2	1.5	8	24	88	24	555	931
	FRP	HRF-30	25@3	49@6	48	30x72	N/A	2	1.5	12	30	96	30	820	1489
	FRP	HRF-36	35@3	71@9	70	36x72	N/A	2	1.5	18	36	96	36	1135	2108
CSM	ELS	CSM-242R	16@3	31@6	30	24x54	4	2	1	8	25	74	33	1048	1465
	ELS	CSM-302R	25@4	49@7	46	30x60	5	2	2.5	12	31	85	40	1500	2320
	ELS	CSM-362R	35@3	71@11	69	36x60	7	2	3	18	37	88	46	2760	3745
	ELS	CSM-422R	48@4	96@13	95	42x60	3	2	3	24	43	90	53	3180	4775
Hi-Flo 50	ELS	HR-4825	63@4	126@15	136	48x60	N/A	2.5	3	32	49	93	64	5200	7800
	ELS	HR-543	80@6	159@18	160	54x60	N/A	3	3	40	55	96	70	6500	9900
	ELS	HR-603	98@1	196@12	210	60x60	N/A	3	3	48	61	98	76	8000	12200

* Recommended flow rate and resulting pressure loss shown for taste, odor and organic removal. Maximum flow rate for this purpose should not exceed 5 gpm per square foot of filter area.

* Recommended flow rate and resulting pressure loss shown for dechlorination. Maximum flow rate for this purpose should not exceed 10 gpm per square foot of filter area.

Depth Filters

Hi-Flo 22	FRP	DF-12	8@2	12@4	10	12x52	N/A	1.5	1	2.1	14	59	17	270	330
	FRP	DF-14	11@3	16@5	15	14x65	N/A	1.5	1	2.4	16	75	19	310	510
	FRP	DF-16	14@3	21@6	20	16x65	N/A	1.5	1	3.6	18	75	21	405	600
	FRP	DF-21	24@7	36@13	30	21x54	N/A	1.5	1	7.3	23	65	26	760	905
Hi-Flo 42F	FRP	HDF-20	24@5	36@10	30	21x69	N/A	2	1.5	5.25	21	86	21	720	857
	FRP	HDF-24	32@5	48@9	48	24x72	N/A	2	1.5	8.3	24	88	24	910	1297
	FRP	HDF-30	50@7	74@11	70	30x72	N/A	2	1.5	12	30	96	30	1335	2043
	FRP	HDF-36	71@10	107@19	90	36x72	N/A	2	1.5	17.6	36	96	36	2010	2957
CSM	ELS	CSM-202D	22@6	33@12	30	20x54	3	2	1	5.5	21	73	29	1096	1415
	ELS	CSM-242D	32@5	48@9	46	24x54	4	2	2.5	8.5	25	74	33	1658	2215
	ELS	CSM-302D	50@9	74@17	76	30x60	5	2	3	12	31	85	40	2414	3560
	ELS	CSM-362D	71@11	107@23	105	36x60	7	2	3	17.2	37	88	46	4030	5600
	ELS	CSM-422D	97@15	145@28	150	42x60	3	2	4	23.8	43	90	53	5008	6470
	ELS	CSM-423D	97@6	145@11	150	42x60	3	3	4	23.8	43	90	54	5058	6520
Hi-Flo 50	ELS	HD-483	126@5	189@10	188	48x60	N/A	3	3	32	49	93	65	7000	9500
	ELS	HD-544	159@5	239@8	210	54x60	N/A	4	3	40	55	96	72	8800	12000
	ELS	HD-604	196@4	295@10	270	60x60	N/A	4	3	49	61	98	78	10800	15000

* Service Flow Rates:

Normal - Best quality effluent with lowest pressure loss. Recommended for influent suspended solids loads up to and greater than 300 ppm.
Peak - Very good quality effluent with increased pressure loss. Recommended for influent suspended solids loads of < 300 ppm.

Iron Filters

CSM	ELS	CSM-202G	10@3		30	20x54	3	2	1	5.5	21	73	29	1096	1415
	ELS	CSM-242G	15@3		46	24x54	4	2	2.5	8.5	25	74	33	1658	2215
	ELS	CSM-302G	25@4		76	30x60	5	2	3	12	31	85	40	2414	3560
	ELS	CSM-362G	35@4		105	36x60	7	2	3	19	37	88	46	4030	5600
	ELS	CSM-423G	50@4		150	42x60	3	3	4	25	43	90	54	5058	6520
Hi-Flo 50	ELS	HG-4825	65@4		160	48x60	N/A	2.5	3	34	49	93	64	7200	9900
	ELS	HG-5425	80@6		210	54x60	N/A	2.5	3	43	55	96	69	9100	12500
	ELS	HG-6025	100@4		240	60x60	N/A	2.5	3	53	61	98	75	11600	16000

* Flow rates shown are maximum recommended. Excessive flow rates may result in iron or sulfur bleed-through.

† All pressure drop and backwash flow data is based on new media and an incoming water temperature of 60 degrees Fahrenheit.

1) ELS: Epoxy Lined Steel, FRP: Fiberglass, TH: Triph-Hull®, QH: Quadra-Hull®

2) Excludes underbedding.

3) Dimensions do not include space for maintenance. It is recommended that 24 inches of free space be provided above the filter for access into the tank and for removal of the tank distribution system if required.

4) Overall tank height is based on standard non-A.S.M.E. code tank construction. See A.S.M.E. tank height adder column for additional height of A.S.M.E. code tanks.



LCRO

Culligan reverse osmosis systems are used in a variety of commercial and industrial applications to significantly reduce levels of dissolved minerals, colloids, particles, organics and silica in water. Whether used in a small restaurant for drinking water or a large industrial plating facility for rinse water, Culligan manufactures systems to fit the needs of a multitude of businesses and applications.



Series BP Plus

Series LC

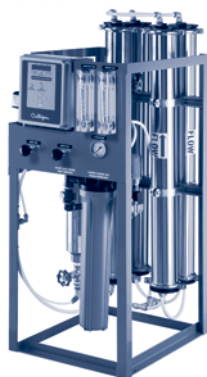
100 and 200 gallon per day systems have a small foot print and require no electrical power for operation. All systems include carbon pretreatment. Easy to remove membrane cartridges make service and installation a snap.

Series BP Plus

Using a positive displacement pump and motor system the Series BP reverse osmosis systems provide a 50% recovery rate (25% for the BP1 and BP1 Plus). System sizes are available in 125 through 2200 gallon per day flow capacities. Controls provide auto-flush, low pressure auto restart and system indicator lights.

Series AP and Series AP Plus

These large commercial/small industrial grade systems provide between 2000 and 10,000 gallons per day with recovery ranging from 50 to 75%. Standard features include stainless steel module housings, concentrate recirculation and prefiltration. Plus unit features include display of TDS, % Rejection, elapsed time, alarm output, low pressure restart, high and low level control inputs, 8 types of flush, and high temperature shutdown are also included.



Series AP Plus

Series BC Plus

Systems use larger membranes and a larger pump than the Series BP. These systems are available in 2000 or 4000 gallons per day. TX models can treat water supplies up to 6000 ppm TDS.

Series T and K

Large industrial reverse osmosis systems starting at 10 gpm and up of treated water. Systems feature thin film composite membranes, multi-stage centrifugal pump, FRP membrane vessels, and solid state electronic controls.

Reverse Osmosis Specifications

Product Line	Model	Nom. Capacity, gpd (1)	Module Qty & Size, in	Recovery, % (2)	Motor HP	Power Req'd	Connections, in			Dim. WxDxH, in	Weight, lbs	
							Feed	Product	Waste		Shipping	Operations
Series LC	LC-1PC	100	1, 2.5x13	30	N/A (3)	N/A	3/8	3/8	1/4	22x5x19	18	14
	LC-2PC	200	1, 2.6x14	30	N/A (3)	N/A	3/8	3/8	1/4	22x5x19	19	15
Series BP	BP-1S	250	1, 2.5x21	25	1/3	115V/60/1	1/2	3/8	1/4	27x11x27	45	44
	BP-2S	500	2, 2.5x21	50	1/3	115V/60/1	1/2	3/8	1/4	27x11x27	50	49
	BP-3S	750	3, 2.5x21	50	1/3	115V/60/1	1/2	3/8	1/4	34x11x27	55	54
	BP-4S	1000	4, 2.5x21	50	1/2	115V/60/1	1/2	3/8	1/4	34x11x27	60	59
	BP-2L	1200	2, 2.5x40	50	3/4	115V/60/1	1/2	1/2	1/4	27x11x46	75	75
	BP-3L	1700	3, 2.5x40	50	3/4	115V/60/1	1/2	1/2	1/4	34x11x46	84	84
	BP-4L	2200	4, 2.5x40	50	3/4	115V/60/1	1/2	1/2	1/4	34x11x46	93	93
Series BC	BC-1	2000	1, 4x40	50	1	115V/60/1	1/2	1/2	1/2	34x12x48	90	90
	BC-2	4000	2, 4x40	50	1.5	115V/60/1	1/2	1/2	1/2	34x12x48	120	120
	BC-1TX	2000	1, 4x40	50	1	115V/60/1	1/2	1/2	1/2	34x12x48	100	100
	BC-2TX	4000	2, 4x40	50	1.5	115V/60/1	1/2	1/2	1/2	34x12x48	130	130
Series AP	AP-1	2000	1, 4x40	50	1	208- 230V/60/1	3/4	1/2	1/2	20x24x52	131	168
	AP-2	4000	2, 4x40	50	1	208- 230V/60/1	3/4	1/2	1/2	20x24x52	154	198
	AP-3	5800	3, 4x40	60	1	208- 230V/60/1	3/4	1/2	1/2	20x24x52	178	228
	AP-4	7500	4, 4x40	60	1	208- 230V/60/1	3/4	1/2	1/2	20x30x52	208	258
	AP-5	9000	5, 4x40	75	1	208- 230V/60/1	3/4	1/2	1/2	20x30x52	231	288
	AP-6	10000	6, 4x40	75	1	208- 230V/60/1	3/4	1/2	1/2	20x30x52	254	318
Series T ⁴	T-4375	17280	12, 4 x 40	65	7.5	460V/60/3	1-1/2	1	3/4	158x35x72	1,550	TBD
	T-5375	21600	15, 4 x 40	65	7.5	460V/60/3	1-1/2	1	3/4	158x35x72	1,870	TBD
	T-6310/75	25920	18, 4 x 40	65	10/7.5	460V/60/3	1-1/2	1-1/2	3/4	158x35x72	2,190	TBD
	T-7310	30240	21, 4 x 40	65	10	460V/60/3	2	1-1/2	3/4	158x35x72	2,450	TBD
Series K ⁴	K-2310/15	36,000 to 43,200	6, 8 x 40	75	10/15	460V/60/3	2	1-1/2	1	158x44x72	4,100	TBD
	K-3315	50,400 to 57,600	9, 8 x 40	75	15	460V/60/3	3	2	1	158x44x72	4,450	TBD
	K-4320	72,000 to 79,200	12, 8 x 40	75	20	460V/60/3	3	2	1	158x44x72	5,050	TBD
	K-4425	93,600 to 108,000	16, 8 x 40	75	25	460V/60/3	3	3	1-1/2	194x44x72	5,525	TBD
	K-5425/30	115,200 to 136,800	20, 8 x 40	75	25/30	460V/60/3	3	3	1-1/2	194x44x72	6,200	TBD
	K-6430/40	144,000 to 165,600	24, 4 x 40	75	30/40	460V/60/3	3	3	1-1/2	194x44x82	7,100	TBD

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after system. The substances removed by RO systems are not necessarily in your water.
 1) Nominal initial capacity based on properly pretreated feed water of 600 ppm TDS, temperature of 77°F, Silt Density Index below 3.0 and an applied pressure as follows: LC-60 psi, Series BP-200 psi, Series AP-140 psi. Series BC feed water of 2000 ppm at 150 psi, Series BC-TX feed water at 6000 ppm at 250 psi. Series T & K feed water of 2000 ppm and 225-250 psi. Productivity will vary depending on other feed water conditions.

2) Depending on feed water quality, it may be possible to operate any unit at a higher recovery to reduce operating costs.
 3) Optional booster pump available.
 4) Specifications for the Series T & K systems are subject to change based on application



Hi-FLO® 50



CSM™

A Solution for Many Applications.

Culligan Dealkalizers reduce unwanted anions in the water supply. Using a process similar to softening, dealkalizers reduce anions instead of cations.

The anion exchange resin attracts ions such as carbonate, bicarbonate, sulfate and nitrate and exchanges them with chloride. If sodium hydroxide is used supplementally as a regenerate, carbon dioxide will also be reduced.



Product Applications Include

- Heating & Cooling
- Steam Generation
- Alkalinity/Sulfate Reduction
- Vehicle Wash
- Hospitals
- Office Buildings
- Restaurants
- Apartment Buildings

Product Features

- Full-Flow Ports – ensures easy water flow
- Electronic Controls – fully programmable
- Choice of Tanks – rugged steel or ASME code steel
- Seismic Ready – bolt-down legs complying with Zone 4 requirements
- Other Options – meter initiated regeneration

Not all models in the line of dealkalizers offer all of these product features. See individual product brochures.

Product Line	Model	Max. Cap. gr (1)	Flow Rate, gpm			Pipe Size, in		Resin Qty, ft ³	Tank Size, in	Brine Tank Size, in (4)	Dimensions (5)			ASME Height Adder	Weights, lbs		
			Continuous	Peak	Minimum	Back Wash	Service				Drain	Single	Duplex		Triplex	Shipping	Operations
HIFlo 22	CA-14	15,250	5@8	10@14	2.1	4	1.5	0.75	2	14x47	18x38	39x19x57	62x19x57	85x19x57	N/A	245	842
	CA-16	22,900	7@8	14@15	2.8	5	1.5	0.75	3	16x53	18x38	47x24x63	110x24x63	173x24x63	N/A	341	1235
	CA-21	38,300	11@4	22@8	4.8	6	1.5	1	5	21x54	24x42	50x24x65	115x24x65	180x24x65	N/A	524	1578
CSM	CSM-242CA	49,700	16@4	32@8	6.2	10	2	1	6.5	24x54	24x50	60x35x74	95x35x74	130x35x74	N/A	1115	2900
	CSM-302CA	91,800	25@6	50@12	9.8	13.5	2	1	12	30x60	24x48	72x42x85	114x42x85	156x42x85	4	1580	3900
	CSM-362CA	137,700	35@8	70@15	14.2	20	2	1	18	36x60	30x48	84x48x88	132x48x88	180x48x88	5	2585	7000
	CSM-422CA	191,200	50@8	100@15	19.2	30	2	2.5	25	42x60	36x48	96x54x90	150x54x90	204x54x90	7	3650	9000
	CA-483	267,800	60@4	120@7	25.2	30	3	2.5	35	48x60	48x60	108x65x93	168x65x93	228x65x93	3	4775	9950
	CA-543	336,600	80@5	160@10	31.8	40	3	2.5	44	54x60	48x60	114x71x96	180x71x96	246x71x96	N/A	5875	12000
HIFlo 50	CA-604	413,100	100@6	200@12	39.2	50	4	2.5	54	60x60	60x60	132x78x98	204x78x98	276x78x98	N/A	7045	15680

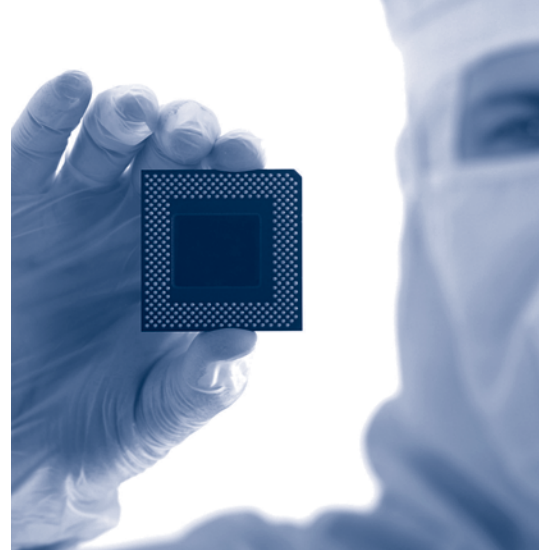
1) Capacity is valid only for dealkalizer applications and based on treating 10 grains per gallon (171 mg/l) water with 50 percent alkalinity and 500 mg/l TDS content and regenerating with 5 pounds of salt and 0.25 lbs of caustic per cubic foot of resin. Capacity will be reduced about 30% when regenerating with salt only. Resin capacity can vary widely. A complete water analysis is necessary to accurately predict the capacity for a specific application.
 2) Peak flow rates are not recommended for extended periods of time. Operating at peak flow rates may cause hardness leakage in treated water flow.
 3) Based on 50 psi line pressure, 25 ft drain line with maximum 5 fittings, and a drain located no more than 4 ft above valve drain outlet.
 4) Denotes that brine systems are optional. Multiple sizes are available for most systems. Size shown is size most often selected for the system shown. Consult your Culligan dealer for brine system choices available.
 5) Dimensions do not include space for maintenance. It is recommended that 24 in of free space be provided above the water softener and a minimum of 6 in around all sides.

The Sensible, Convenient Source for High Purity Water.

From a single tank to a complete system Culligan deionization systems are designed for high quality water needs. Individual models of Culligan deionization systems are designed for easy operation and provide a cost-efficient supply of high purity water for your business.



Pro Series



Deionization removes dissolved ionized solids by ion exchange. Both negative anions and positive cations are removed by charged ion exchange resins. Culligan systems come in three types - strong base, weak base or mixed bed - to produce a variety of final water qualities.

Product Applications Include

- Electronics
- Food Service
- Vehicle Wash
- Boilers
- Distilleries
- Ice Making
- Printing
- Plating
- Pharmaceuticals

Please see your Culligan dealer to determine the best deionization system for your specific application.

Product Features

Automatic

- Construction – all plastic for corrosion resistance
- Safe Regenerant Handling – drawn directly from bulk containers
- Reliable Controls – initiates regeneration automatically
- Quality Rinse – system rinses until quality reaches set point
- Options – duplex controls, recirculation kit

Portable Exchange

- Choice of Tanks – fiberglass or stainless steel
- Regeneration – no chemicals to handle, no hazardous waste for customer
- Maintenance – none required, provided by local Culligan dealer
- Simplicity of Operation – operates on line pressure
- Options – quality lights/indicators, recirculation system, safety shut-off

Not all models in the Culligan series of deionization systems offer all of these product features. See individual product brochures for additional information.

Product Line	Model	Capacity, gr (1)	Flow Rate, gpm				Pipe Size		Cation Resin Qty, ft ³	Anion Resin Qty, ft ³	Tank Size, in	Dimensions, in			Weight, lbs	
			Minimum	Nominal	Back Wash Cation	Back Wash Anion	Service	Drain				Width	Depth	Height	Shipping	Operations
Strong Base	PS-21	107,000	4.4@3	20@23	10	3	1	1	5	6	21x69 (RRP Tank)	70	34	89	1000	1950
	PS-24	180,000	6.3@4	30@15	15	5	2	1	9	10	24x72 (RRP Tank)	75	37	92	1550	2700
	PS-30	285,000	9.8@4	50@22	20	8	2	1	14	16	30x72 (RRP Tank)	84	43	92	2200	4150
	PS-36	410,000	14.2@2	70@22	30	15	2	1	21	23	36x72 (RRP Tank)	96	49	92	3000	5950
Pro Series	PS-42	520,000	19.2@2	100@17	40	20	3	2	26	29	42x72 (RRP Tank)	108	55	95	4200	7700
	PS-48	710,000	25.1@2	125@21	50	25	3	2	36	40	48x72 (RRP Tank)	120	61	95	5860	8950
	PW-21	126,000	4.4@3	20@23	10	3	1	1	6	5	21x69 (RRP Tank)	70	34	89	1000	1950
	PW-24	210,000	6.3@4	30@15	15	5	2	1	10	8	24x72 (RRP Tank)	75	37	92	1550	2700
Weak Base	PW-30	335,000	9.8@4	50@22	20	8	2	1	16	13	30x72 (RRP Tank)	84	43	92	2200	4150
	PW-36	480,000	14.2@2	70@22	30	15	2	1	23	19	36x72 (RRP Tank)	96	49	92	3000	5950
	PW-42	605,000	19.2@2	100@17	40	20	3	2	29	24	42x72 (RRP Tank)	108	55	95	4200	7700
	PW-48	875,000	25.1@2	125@21	50	25	3	2	40	34	48x72 (RRP Tank)	120	61	95	5860	8950

1) Capacities are based on water having not more than 10 gpg total dissolved solids as CaCO₃, consisting of 25% sodium, 50% alkalinity, at 77°F, and free of color, oil, turbidity and organics.
 2) Dimensions do not include space for regenerant chemical drums.
 3) Hydraulic operation of valves is standard.
 4) Flow rates less than minimum require an optional recirculation pump system to maintain water quality.

Deionization Specifications (cont.)

Portable Exchange														
Product Line	Tank Constr (3)	Model	Nom. Capacity, gr (1)	Flow Rate, gpm		Service Pipe, in	Cation Resin Qty, ft ³	Anion Resin Qty, ft ³	Tank Size, in	Dimensions, in			Weight, lbs	
				Minimum	Nominal					Width	Depth	Height	Shipping	Operations
PE Deionizer	FRP	6"-MB	2,500	0.15@2	0.8@20	0.25 (2)	0.08	0.17	6x23	7	7	24	20	30
	FRP	8"-MB	4,500	0.25@2	0.8@20	0.25 (2)	0.15	0.3	8x23	9	9	24	31	48
	SS	9"-MB	12,500	1@1.4	5@8.3	0.75	0.43	0.9	9x44	11	9	54	26	145
	FRP	9"-MB	11,300	1@1	5@8.2	0.75	0.4	0.8	9x44	11	9	54	75	110
	SS	12"-MB	20,000	1.5@1	8@7	1	0.7	1.4	12x44	14	12	54	41	235
	FRP	12"-MB	20,000	1.5@1	8@7	0.75	0.7	1.4	12x44	14	12	54	132	195
	FRP	12"-MB	20,000	1.5@1	8@16	1	0.7	1.4	12x44	14	12	54	132	195
	SS	14"-MB	28,000	2@2	20@23	1	1	2	14x49	16	14	60	54	260
	FRP	14"-MB	28,000	2@2	20@23	1	1	2	14x48	16	14	58	180	260
	SS	9"-SB	30,000	1@1.4	5@8.3	0.75	1.5	1.5	9x44	24	9	54	26	153
	FRP	9"-SB	28,000	1@2	5@16	0.75	1.4	1.4	9x44	24	9	54	85	120
	SS	12"-SB	50,000	1.5@1	8@7	1	2.5	2.5	12x44	30	12	54	41	250
	FRP	12"-SB	50,000	1.5@2	8@15	0.75	2.5	2.5	12x44	30	12	54	155	218
	FRP	12"-SB	50,000	1.5@2	8@14	1	2.5	2.5	12x44	30	12	54	155	218
	SS	14"-SB	66,000	2@3	20@23	1	3.3	3.3	14x49	34	14	60	54	278
	FRP	14"-SB	66,000	2@3	20@23	1	3.3	3.3	14x48	34	14	58	196	278
	SS	9"-WB	45,000	1@1.8	5@8.3	0.75	1.5	1.5	9x44	24	9	54	26	150
	FRP	9"-WB	42,000	1@2	5@16	0.75	1.4	1.4	9x44	24	9	54	83	118
	SS	12"-WB	75,000	1.5@2.3	8@7	1	2.5	2.5	12x44	30	12	54	41	245
	FRP	12"-WB	75,000	1.5@2	8@15	0.75	2.5	2.5	12x44	30	12	54	150	213
FRP	12"-WB	75,000	1.5@2	8@13	1	2.5	2.5	12x44	30	12	54	150	213	
SS	14"-WB	99,000	2@2.3	20@23	1	3.3	3.3	14x49	30	12	60	54	277	
FRP	14"-WB	99,000	2@2.3	20@23	1	3.3	3.3	14x48	34	14	58	195	277	
PE Softener	FRP	6"-SOFT	7,500	0.15@2	0.8@20	0.25 (2)	0.25	N/A	6x23	7	7	24	20	30
	FRP	8"-SOFT	13,500	0.15@2	0.8@20	0.25 (2)	0.45	N/A	8x23	9	9	24	31	48
	SS	9"-SOFT	45,000	1@1.4	5@8.3	0.75	1.5	N/A	9x44	11	9	54	26	145
	FRP	9"-SOFT	42,000	1@1	5@8.2	0.75	1.4	N/A	9x44	11	9	54	75	110
	SS	12"-SOFT	75,000	1.5@1	8@7	1	2.5	N/A	12x44	14	12	54	41	235
	FRP	12"-SOFT	75,000	1.5@1	8@7	0.75	2.5	N/A	12x44	14	12	54	132	195
	FRP	12"-SOFT	75,000	1.5@1	8@16	1	2.5	N/A	12x44	14	12	54	132	195
	SS	14"-SOFT	99,000	2@2	20@23	1	3.3	N/A	14x49	16	14	60	54	260
	FRP	14"-SOFT	99,000	2@2	20@23	1	3.3	N/A	14x48	16	14	58	180	260
PE Carbon Filter	FRP	6"-CARB	N/A	0.15@2	0.8@20	0.25 (2)	0.25	N/A	6x23	7	7	24	20	30
	FRP	8"-CARB	N/A	0.15@2	0.8@20	0.25 (2)	0.45	N/A	8x23	9	9	24	31	48
	SS	9"-CARB	N/A	1@1.4	5@8.3	0.75	1.5	N/A	9x44	11	9	54	26	145
	FRP	9"-CARB	N/A	1@1	5@8.2	0.75	1.4	N/A	9x44	11	9	54	75	110
	SS	12"-CARB	N/A	1.5@1	8@7	1	2.5	N/A	12x44	14	12	54	41	235
	FRP	12"-CARB	N/A	1.5@1	8@7	0.75	2.5	N/A	12x44	14	12	54	132	195
	FRP	12"-CARB	N/A	1.5@1	8@16	1	2.5	N/A	12x44	14	12	54	132	195
	SS	14"-CARB	N/A	2@2	20@23	1	3.3	N/A	14x49	16	14	60	54	260
	FRP	14"-CARB	N/A	2@2	20@23	1	3.3	N/A	14x48	16	14	58	180	260

1) Capacities are based on water having not more than 10 gpg total dissolved solids as CaCO₃, consisting of 25% sodium, 50% alkalinity, at 77°F, and free of color, oil, turbidity and organics.
 2) Tubing Size.
 3) FRP: Fiberglass, SS: Stainless Steel

Bottle-less Coolers and Bottled Water

People everywhere have discovered the health benefits of drinking more water. Culligan can provide the highest quality drinking water and make better tasting coffee, tea, and other drinks.

Never Lift a Bottle Again with a Bottle-less Cooler.

Enjoy an endless and dependable supply of crystal-clear, great tasting drinking water to keep all your employees and guests hydrated. Eliminate the need to store, lift or replace water bottles and contribute to the world's green initiative.

Using leading edge filtration within the cooler, Culligan improves the taste and odor of drinking water.

- No Bottles to Lift or Store
- Provides Cold and Optional Hot Water
- Hot Water Safety Lock Provided

Optional Features:

- 3-Stage Reverse Osmosis System
- Standard UV Light For Cold Tank Sanitization
- Culligan Preferred Series Filters which can be internally mounted and configured to address specific water quality issues

Full Service Bottled Water.

Enjoy the convenience of delivered Culligan® bottled water to your workplace. Our five-gallon containers supply long-lasting refreshment to keep busy employees hydrated throughout the work day.

With nationwide service, Culligan has a dealer near you that can make routine deliveries based on the amount of water you need.

- Distilled Water/Deionized Water:
1, 3, and 5 gallons
- Purified Drinking Water:
16.9 oz, 20 oz, 24 oz, 1 gallon, 3 gallon, 5 gallon





better water. pure and simple.™

1-800-CULLIGAN www.culligancommercial.com

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The contaminants or other substances removed or reduced by these water treatment devices are not necessarily in your water.

The terms of product warranties vary and may be modified from time to time.

Our certifications include:

