



DP Series Commercial Softeners



Applications:

- Car Washes
- Farms
- Office Buildings
- Restaurants
- Boiler Feed Water
- R.O. Pretreatment
- Factories
- Laundries
- Motels / Hotels
- Apartments / Condos
- Dairies
- Hospitals
- Schools
- Nursing Homes

Pictured above is model DP-210-1 1/2

- ◆ *Twin alternating meter initiated packaged water softeners*
- ◆ *Flow rates up to 32 gpm continuous*
- ◆ *Capacities of 15,000 to 450,000 grains per tank*

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System Standard Features



Standard DP 1" Series Control with Mechanical Meter



Standard DP 1 1/2" Series Control with Mechanical Meter



Optional Electronic Timer Display Features:

- ◆ Unit Status
- ◆ Gallons Remaining
- ◆ Flow Rate
- ◆ Totalization
- ◆ Chemical Pump Output

Total System

- ◆ Continuous soft water, 24 hours per day with one unit in service and one unit in standby.
- ◆ System regenerates only when needed based on water meter initiation.
- ◆ Mineral tanks have a polyethylene inner shell that is externally wound with continuous fiberglass filament for seamless, corrosion proof construction. These tanks are 1/3 the weight of a comparable size steel tank for ease of installation and handling and carry a 5 year limited warranty.
- ◆ Easy to install and service.
- ◆ High capacity virgin polystyrene softening resin.
- ◆ High flow ABS plastic underdrain allows minimum pressure loss and even distribution of service and regeneration water.

- ◆ Mineral and brine tanks carry a 5 year limited warranty. Valve and controls carry a 5 year limited warranty.

Brine System

- ◆ Brine Tanks are constructed from FDA approved high density polyethylene which are corrosion resistant, easy to handle and include a dust tight cover.
- ◆ Brink tank refill is controlled by time and a pressure compensating flow control that is easily adjustable at the main control. This eliminates the need for hard to set floats in the brine tank and allows the addition of salt at anytime without overflow.
- ◆ Large salt storage capacity allows for a minimum of 4 regenerations between salt refills.
- ◆ Quick brine makeup without the use of salt platforms.

Valve & Controls

- ◆ Top mounted solid brass valve with motor driven piston to control regeneration cycles assures durability and long life.
- ◆ The cycle timer controls all regeneration cycles which are completely adjustable.
- ◆ 5-cycle control delivers controlled upflow backwash, downflow brining, slow rinse, rapid rinse, timed brine refill, and downflow service, all performed with conditioned water.
- ◆ Backwash is controlled by a pressure compensating flexible orifice which is self adjusting regardless of water pressure. No field adjustment is required.
- ◆ The two self-cleaning teflon coated pistons are hydraulically balanced allowing for smooth and quiet shifting regardless of water pressure.
- ◆ Brine tank refill is a separate cycle that is controlled by time and flow which is accurate and easy to adjust at the control valve.
- ◆ The water meter is made of brass or corrosion-resistant plastic to provide dependable service. There is only one instream moving part - the meter impeller with a flow accuracy of $\pm 5\%$.

DP Series Specifications

MODEL NUMBER	Grains Cap. and Salt Dosage Grains/Pounds		Pipe Size in.	Service Flow Rate GPM		Resin cu. ft. per Tank	Back-wash Flow Rate	Tank Sizes		Salt Storage lbs.	Drain Size	Meter Size in. (3)
	MAXIMUM	MINIMUM		(1) Cont.	(2) Peak			Softener in.	Brine in.			
DP-15-1	15,000/7.5	10,000/3	1"	11	16	0.5	1	8x44	18x33	300	1/2"	3/4"
DP-24-1	24,000/10	16,000/4	1"	10	15	0.75	1.5	8x44	18x33	300	1/2"	3/4"
DP-30-1	30,000/15	20,000/6	1"	13	18	1	2	9x48	18x33	300	1/2"	3/4"
DP-45-1	45,000/22.5	30,000/9	1"	12	17	1.5	2.4	10x54	18x40	400	1/2"	3/4"
DP-60-1	60,000/30	40,000/12	1"	16	21	2	3.5	12x52	18x40	400	1/2"	1"
DP-60-1 1/2			1 1/2"	23	32						1"	1 1/2"
DP-75-1	75,000/37.5	50,000/15	1"	17	22	2.5	4	13x54	18x40	400	1/2"	1"
DP-75-1 1/2			1"	22	31						1"	1 1/2"
DP-90-1	90,000/45	60,000/18	1"	16	21	3	5	14x65	24x50	900	1/2"	1"
DP-90-1 1/2			1 1/2"	22	30						1"	1 1/2"
DP-120-1	120,000/60	80,000/24	1"	16	22	4	7	16x65	24x50	900	1/2"	1"
DP-120-1 1/2			1 1/2"	25	34						1"	1 1/2"
DP-150-1	150,000/75	100,000/30	1"	18	23	5	9	18x65	24x50	900	1/2"	1"
DP-150-1 1/2-18			1 1/2"	27	37						1"	1 1/2"
DP-150-1 1/2-21			1 1/2"	31	41						1"	1 1/2"
DP-180-1	180,000/90	120,000/36	1"	17	23	6	12	18x65	24x50	900	1/2"	1"
DP-180-1 1/2-18			1 1/2"	26	35						1"	1 1/2"
DP-180-1 1/2-21			1 1/2"	30	40						1"	1 1/2"
DP-210-1	210,000/105	140,000/42	1"	17	22	7	12	21x62	24x50	900	1/2"	1"
DP-210-1 1/2			1 1/2"	29	39						1"	1 1/2"
DP-240-1 1/2	240,000/120	160,000/48	1 1/2"	32	42	8	15	24x71	24x50	900	1"	1 1/2"
DP-270-1 1/2	270,000/135	180,000/54	1 1/2"	31	41	9	15	24x71	24x50	900	1"	1 1/2"
DP-300-1 1/2	300,000/150	200,000/60	1 1/2"	30	40	10	15	24x71	30x50	1400	1"	1 1/2"
DP-450-1 1/2	450,000/225	300,000/90	1 1/2"	32	42	15	25	30x72	39x48	2200	1"	1 1/2"

◆ Product improvements and design subject to change without notice

- (1) At 15PSI pressure loss
- (2) At 25 PSI pressure loss
- (3) Mechanical Meter Range - 3/4" - standard 125 - 2,125 gallons
 - extended 625 - 10,625 gallons
 1" - standard 310 - 5,270 gallons
 - extended 1,150 - 26,350 gallons
 1 1/2" - standard 625 - 10,625 gallons
 - extended 3,125 - 53,125 gallons
- (4) Electronic Meter Range - unlimited range

Standard Operating Specifications

Electrical Requirements - 120 vac, 60Hz 10 watts
 Temperature Range - 40° to 110°F
 Pressure Range - 30 to 100 psi

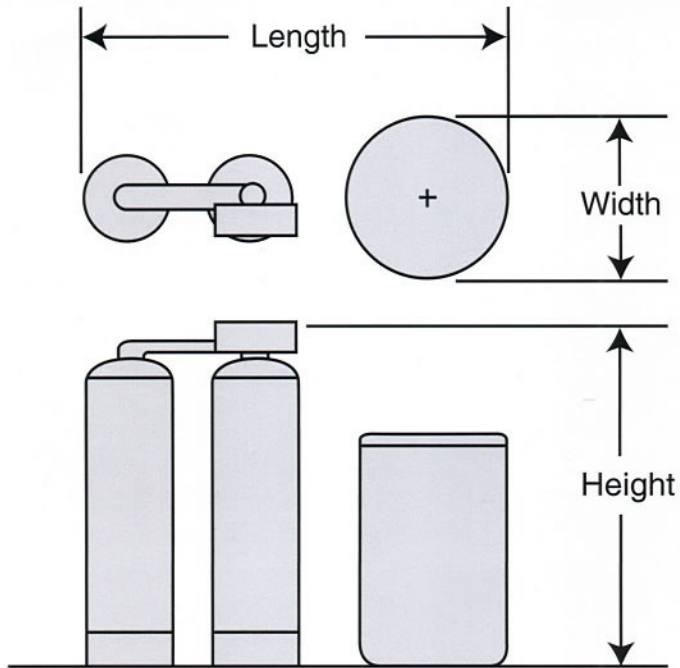
Available Options

Electrical -24V/50Hz, 24V/60Hz, 110V/50Hz, 220V/50Hz, 220V/60Hz

High Temperature Operation - for service water over 110°F but not exceeding 150°F

Electronic Timer Provides unit status, gallons remaining, flow rate, totalization and chemical pump output

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DP Floor Space Requirements

MODEL NUMBER	DIMENSIONS			SHIPPING WT. LBS.
	LENGTH	WIDTH	HEIGHT	
DP-15	42	18	50	115
DP-24	42	18	50	137
DP-30	44	18	54	175
DP-45	46	18	60	275
DP-60	50	18	58	395
DP-75	52	18	60	480
DP-90	60	24	71	665
DP-120	64	24	71	810
DP-150-18	68	24	71	950
DP-150-21	74	24	68	1000
DP-180-18	68	24	71	1050
DP-180-21	74	24	68	1100
DP-210	74	24	68	1160
DP-240	80	24	77	1350
DP-270	80	24	77	1500
DP-300	86	30	77	1605
DP-450	107	39	78	2890

Manufactured By:

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