

LIGHT COMMERCIAL/RESIDENTIAL WATER SOFTENERS (ODL GROUP)



The ODL Group (On Demand Light) is perfect for Light Commercial applications requiring a simple cost effective solution for single tank softening applications.

Technical Specifications & Features

- Recommended maximum operating pressure: 100 psig (690 kPa)
- Recommended maximum operating temperature: 100°F (38°C)

Main Control Valve

- Single valve per tank controls all softener functions
- Electronic timer controls all valve cycles including service, backwash, brine draw, second backwash, slow rinse, fast rinse and brine tank refill
- Meter initiated regeneration
- 7000 control valve constructed of fiber reinforced polymer
- Main piston is a lead-free brass* with a Teflon coating
- Simple threaded (NPT) inlet, outlet and drain connections
- 7000 valve uses 24VAC Class 2, CSA certified transformer

Resin

- Premium quality ion exchange softening resin, selected for resistance to fouling and minimum salt usage
- FDA Grade



Softener Tanks and Internals

- Seamless polyethylene liner wrapped with a continuous filament wound/epoxy resin fiberglass shell
- PVC hub/lateral flow distributor and riser tube with washed quartz support bed
- Tanks up to and including 24" diameter are manufactured by Superior Water Conditioning
- Brine tanks are one-piece rotationally molded polyethylene with lid, air check valve assembly, brine well and grid assembly

Warranty

All equipment is warranted against defects in material or workmanship for the following periods:

- Fiberglass tanks - 5 years
- Brine Tank - 1 year
- Control Valve and Electronics - 5 years
- Brine Tank Air Check - 2 years
- All other components are for a period of one year

Optional Features

- Brine tank safety float
- Additional pipe connection types

*As defined under Section 1417(d) of the U.S.E.P.A. Safe Drinking Water Act

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ODL Group Commercial Softener Specifications

Model	Capacity at Factory Setting grains*	Resin Volume cu.ft. (c.u.m.)	Critical Application Max. Flow Rate usgpm (lps)	Flow Rates usgpm (lps)		Max. Flow to Drain usgpm (lps)	Salt per Regeneration at Factory Setting lbs (kg)	Mineral Tank Dimensions inches (mm)	Brine Tank (CANADA) Dimensions inches (mm)	Brine Tank (USA) Dimensions inches (mm)	Approx. Space Required inches (mm)			Shipping Weight lbs (kg)
				15 psi drop	25 psi drop						Height	Depth	Width	
ODL 60 - 1.25" S40	54,000	2 (0.06)	10 (0.63)	22 (1.39)	30 (1.89)	5 (0.32)	20 (9)	14 x 50 (356 x 1270)	21 x 36 (533 x 914)	18 x 40 (457 x 1016)	58 (1473)	33 (838)	54 (1372)	225 (102)
ODL 90 - 1.25" S40	81,000	3 (0.08)	15 (0.95)	20 (1.26)	28 (1.77)	5 (0.32)	30 (14)	14 x 65 (356 x 1651)	21 x 36 (533 x 914)	18 x 40 (457 x 1016)	73 (1854)	33 (838)	54 (1372)	285 (129)
ODL 120 - 1.25" S40	108,000	4 (0.11)	20 (1.26)	22 (1.39)	29 (1.83)	7 (0.44)	40 (18)	16 x 65 (408 x 1651)	21 x 36 (533 x 914)	18 x 40 (457 x 1016)	73 (1854)	33 (838)	55 (1397)	345 (156)
ODL 150 - 1.25" S40	135,000	5 (0.14)	24 (1.51)	24 (1.51)	32 (2.02)	12 (0.75)	50 (23)	21 x 54 (533 x 1372)	24 x 48 (610 x 1219)	24 x 50 (610 x 1219)	63 (1600)	36 (914)	64 (1626)	460 (209)
ODL 180 - 1.25" S40	162,000	6 (0.17)	24 (1.51)	24 (1.51)	32 (2.02)	12 (0.75)	60 (27)	21 x 54 (533 x 1372)	24 x 48 (610 x 1219)	24 x 50 (610 x 1219)	63 (1600)	36 (914)	64 (1626)	515 (234)
ODL 210 - 1.25" S40	175,000	7 (0.20)	23 (1.45)	23 (1.45)	31 (1.96)	12 (0.75)	56 (25)	21 x 69 (533 x 1753)	24 x 48 (610 x 1219)	24 x 50 (610 x 1219)	78 (1981)	36 (914)	64 (1626)	295 (134)
ODL 240 - 1.25" S40	200,000	8 (0.23)	23 (1.45)	23 (1.45)	31 (1.96)	12 (0.75)	64 (29)	21 x 69 (533 x 1753)	24 x 48 (610 x 1219)	24 x 50 (610 x 1219)	78 (1981)	36 (914)	64 (1626)	655 (297)
ODL 270 - 1.25" S40	180,000	9 (0.25)	24 (1.51)	24 (1.51)	32 (2.02)	15 (0.94)	54 (24)	24 x 72 (610 x 1829)	30 x 48 (762 x 1219)	30 x 50 (762 x 1219)	81 (2057)	42 (1067)	73 (1854)	785 (356)
ODL 300 - 1.25" S40	200,000	10 (0.28)	24 (1.51)	24 (1.51)	32 (2.02)	15 (0.94)	60 (27)	24 x 72 (610 x 1829)	30 x 48 (762 x 1219)	30 x 50 (762 x 1219)	81 (2057)	42 (1067)	73 (1854)	835 (379)
ODL 330 - 1.25" S40	220,000	11 (0.31)	24 (1.51)	24 (1.51)	32 (2.02)	15 (0.94)	66 (30)	24 x 72 (610 x 1829)	30 x 48 (762 x 1219)	30 x 50 (762 x 1219)	81 (2057)	42 (1067)	73 (1854)	885 (401)

* The factory regeneration recommended setting of the ODL Group is shown in italics in the table above. Higher capacities with an increased salt dosage is achievable on most systems with the exception of some larger systems.

• Superior Water Conditioning reserves the right to make product improvements which may deviate from the specifications and descriptions stated herein, without obligation to change previously manufactured products or to note the change

7000SXT, HIGH FLOW RATE CONTROL VALVE (ODL GROUP)



Valve Specifications

Valve material	Fiber-reinforced polymer
Inlet/Outlet	3/4" - 1-1/2" NPT, BSP and Sweat
Cycles	Up to 6 cycles

Flow Rates (50 psi Inlet) - Valve Alone

Piston	Standard	High Flow	Filter
Continuous	27.7	35.8	36.7
Peak (25 psi drop)	35.5	46.0	47.5
Cv (flow at 1 psi drop)	7.1	9.2	9.5
Max. backwash (25 psi drop)	7.4	15.8	31.3

Regeneration

Downflow/Upflow	Downflow only
Adjustable cycles	Yes
Time available	199 minutes per cycle

Meter Information

Meter accuracy	+5/-8% (2 - 40 gpm)
Meter capacity Range (gal.)	1 - 999,900

Dimensions

Distributor pilot	1.05" or 32 mm
Drain line	3/4" or 1" NPT Quick Connect
Brine line	3/8" or 1/2" Quick Connect
Mounting base	2-1/2" - 8 NPSM
Height from top of tank	7.9"

Typical Applications

Water softener	8" - 24" diameter
Filters	8" - 24" diameter

Additional Information

Injector brine system	1610
Electrical rating	24 VAC, 50/60 Hz
Max. VA	15
Estimated shipping weight	11 lbs.
Pressure	
Hydrostatic:	300 psi
Working:	20 - 125 psi
Temperature	34o - 110o F

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