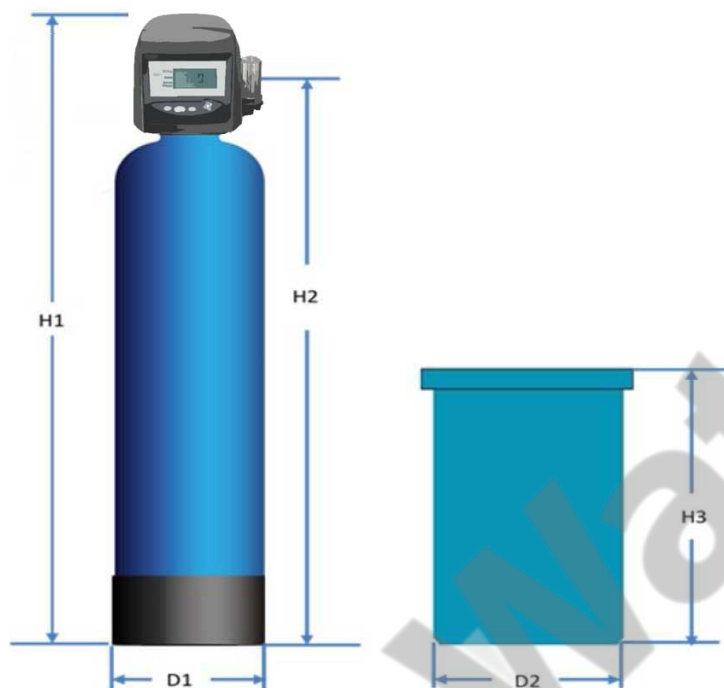


# Autotrol Simplex Softeners



Footprint

Vessel	Volume (litres)	H1 (mm)	H2 (mm)	H3 (mm)	D1 (mm)	D2 (mm)	Weight (kg)	Width (mm)	Depth (mm)	Height (mm)
817	10	614	464	450	215	320sq	26	545	320	619
735	14	1074	923	450	190	320sq	28	545	320	1078
835	20	1074	923	450	215	320sq	39	545	320	1078
935	25	1088	937	450	233	320sq	40	545	320	1092
1035	30	1074	923	950	268	365x430	53	633	430	1078
1044	40	1301	1150	950	268	365x430	67	633	430	1305
1054	50	1561	1410	950	267	365x430	80	632	430	1565
1248	60	1413	1262	830	315	670	90	685	370	1417
1252	60	1521	1370	830	315	670	90	685	370	1525
1354	75	1567	1416	980	349	760	115	1109	760	1571
1465	100	1866	1715	920	370	880	158	1250	880	1866
1465	125	1866	1715	920	370	880	183	1250	880	1866
1665	150	1858	1692	1150	406	880	216	1286	880	1858
1865	200	2030	1810	1150	510	880	279	1390	880	2030
2160	250	1915	1958	1080	552	1000	419	1552	1000	1915
2469	350	2165	1945	1080	610	1000	519	1610	1000	2165
3072	500	2336	1487	1500	770	1260	555	2030	1260	2336
3672	700	2432	1487	1500	927	1260	747	2187	1260	2432

Weight excludes water.

## General conditions for installation.

Electrical Rating	Autotrol 230V 50Hz 12V Transformer
Power Rating	Autotrol 3 Watt / Clack 6 Watt
Minimum Pressure	200 kPa (2 Bar)
Maximum Pressure	700 kPa (7 Bar)
Vacuum	Not Permitted
Average Pressure Loss	100 kPa (1 Bar) under normal circumstances
Min – Max Temperature	5-35°C

It is always recommended to install a 25µ cartridge filter before a softener

## Resin

Type:	Strong acid cation resin – softening, food grade quality
Life Span:	15 Years under normal operating conditions

## General conditions for installation.

Valve	255	268,278	298
Connection Inlet / Outlet (standard)	¾" BSPM	1" BSPM	2" BSPM
Drain Connection	¾" BSP or ½" Barbed	¾" BSP or 19mm Barbed	1.5" BSPM

## Ion exchange (for average salt consumption of 150 g/L)

Litres of resin	10	14	20	25	30	40	50	60	75	100	125	150	200	250	350	500	700
Capacity Kg CaCO <sub>3</sub>	.5	.7	1	1.25	1.5	2	2.5	3	3.75	5	6.25	7.5	10	12.5	17.5	25	35
M <sup>3</sup> @ 300 ppm	1.6	2.3	3.3	4.1	5	6.6	8.3	10	12.5	16.6	20.8	25	33.3	41.6	50	83.3	116
Salt used Kg	1.5	2.1	3	3.75	4.5	6	7.5	9	11.25	15	18.75	22.5	30	37.5	52.5	75	105

## Regeneration (based on clack valves)

Litres of resin	10	14	20	25	30	40	50	60	75	100	125	150	200	250	350	500	700
Total time min	65	65	65	65	79	71	81	73	75	97	97	82	95	72	77	92	83

The interval between regenerations should be no more than 14 days to prevent bacterial growth

## Flow rate (Through the resin bed @ 40 bed volumes)

Litres of resin	10	14	20	25	30	40	50	60	75	100	125	150	200	250	350	500	700
Nominal Flow M <sup>3</sup> /h	.4	.56	.8	1	1.2	1.6	2	2.4	3	4	5	6	8	10	14	20	28
Minimum Flow L/h	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60

## Flow rate (Maximum flow through valve)

Valve	Maximum service flow m <sup>3</sup> /hr
Autotrol 255	3.52
Autotrol 268/278	5.7
Autotrol 298	17

## Effluent per regeneration (Litres) based on 60psi.

Litres of resin	10	14	20	25	30	40	50	60	75	100	125	150	200	250	350	500	700
Total Effluent	143	143	138	201	238	216	224	316	397	472	455	573	814	1734	2316	2617	3093

## This information should be used as a guide only!

We reserve the right to alter specifications without prior notice. E&OE