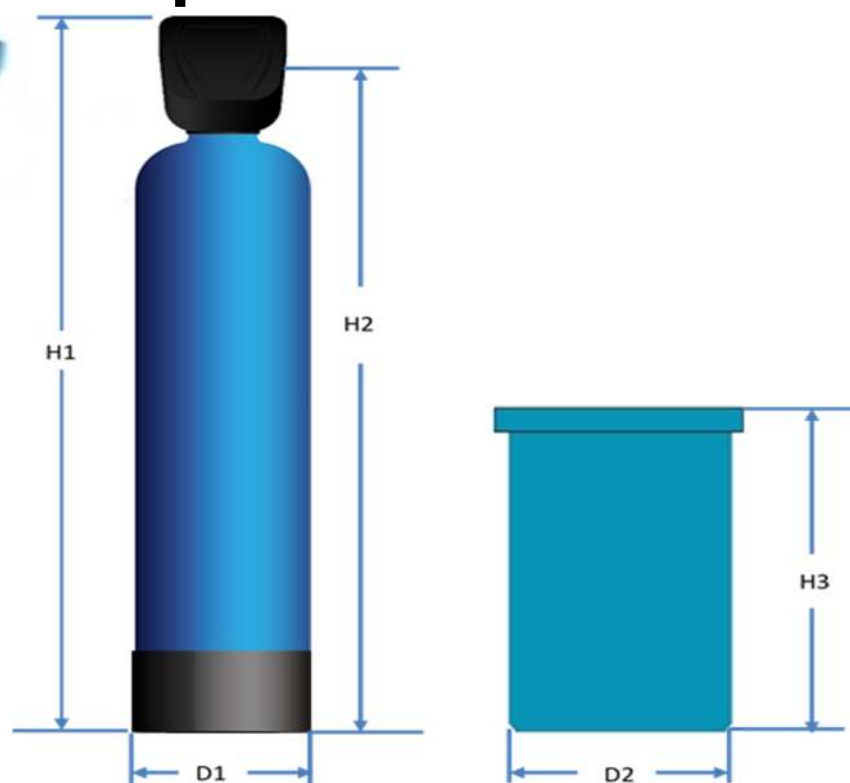


Simplex Softeners



All measurements in mm.

Footprint

Vessel	Volume	H1*	H2**	H3	D1	D2	Kg	Width	Depth	Height*
817	10L	619	485	450	215	320sq	26	545	320	619
735	14L	1078	944	450	190	320sq	28	545	320	1078
835	20L	1078	944	450	215	320sq	39	545	320	1078
935	25L	1092	958	450	233	320sq	40	545	320	1092
1035	30L	1078	944	950	268	365x430	53	633	430	1078
1044	40L	1305	1171	950	268	365x430	67	633	430	1305
1054	50L	1565	1431	950	267	365x430	80	632	430	1565
1248	60L	1417	1283	830	315	670	90	685	370	1417
1252	60L	1525	1391	830	315	670	90	685	370	1525
1354	75L	1571	1437	980	349	760	115	1109	760	1571
1465	100L	1870	1736	920	370	880	158	1250	880	1870
1465	125L	1870	1736	920	370	880	183	1250	880	1870
1465 T&B	125L	2245	2111	920	497	880	185	1250	880	2245
1665	150L	1862	1713	1150	406	880	216	1286	880	1862
1665 T&B	150L	2249	2115	1150	497	880	220	1377	880	2249
1865	200L	1957	1823	1150	510	880	279	1390	880	1957
1865 T&B	200L	2105	1971	1150	539	880	285	1390	880	2105
2160	250L	1842	1708	1080	552	1000	419	1552	1000	1842
2160 T&B	250L	1994	1860	1080	552	1000	423	1552	1000	1994
2469	350L	2092	1958	1080	610	1000	519	1610	1000	2092
2469 T&B	350L	2214	2080	1080	610	1000	525	1610	1000	2214
3072 T&B	500L	2262	2128	1500	770	1260	555	2030	1260	2262
3672 T&B	700L	2359	2225	1500	927	1260	747	2187	1260	2359

Weight excludes water.

* Based on WS1 valve see over for adjustments when other valves used

** Based on WS1 valve see over for adjustments when other valves used

Width , Depth, Height if vessel and brine tank next to each other and touching.

Measurement adjustments by valve:

Valve	*	**
255	-4mm	-21mm
268/278	-4mm	-21mm
298	+73mm	-13mm
Clack 1"	Same	Same
Clack 1.25"	Same	Same
Clack 1.5" P	+87mm	+30mm
Clack 1.5"	+4mm	+30mm
Clack 2"	+29mm	+60mm

General conditions for installation.

Electrical Rating	Autotrol 230V 50Hz 12V Transformer Clack 230V 50Hz 15V 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	WS1, 268,278	WS1.25	WS1.5P	WS1.5	WS2	298
Connection Inlet / Outlet (standard)	¾" BSPM	1" BSPM	1-1/4" BSPM	1.5" BSPM	1.5" BSPF	2" BSPF	2" BSPM
Drain Connection	¾" BSP or ½" Barbed	¾" BSP or 19mm Barbed	¾" BSP or 19mm Barbed	1" BSPM or 19mm barbed	1.5" BSPF	1.5" BSPF	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 ₃	.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 ³ @ 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 ³ /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 ³ /hr
Autotrol 255	3.52
Autotrol 268/278	5.7
Autotrol 298	17
Clack 1"	6.1
Clack 1.25"	7.7
Clack 1.5" Noryl	9.8
Clack 1.5"	13.6
Clack 2"	26

Effluent per regeneration (Litres) (based on 60psi and Clack settings).

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

