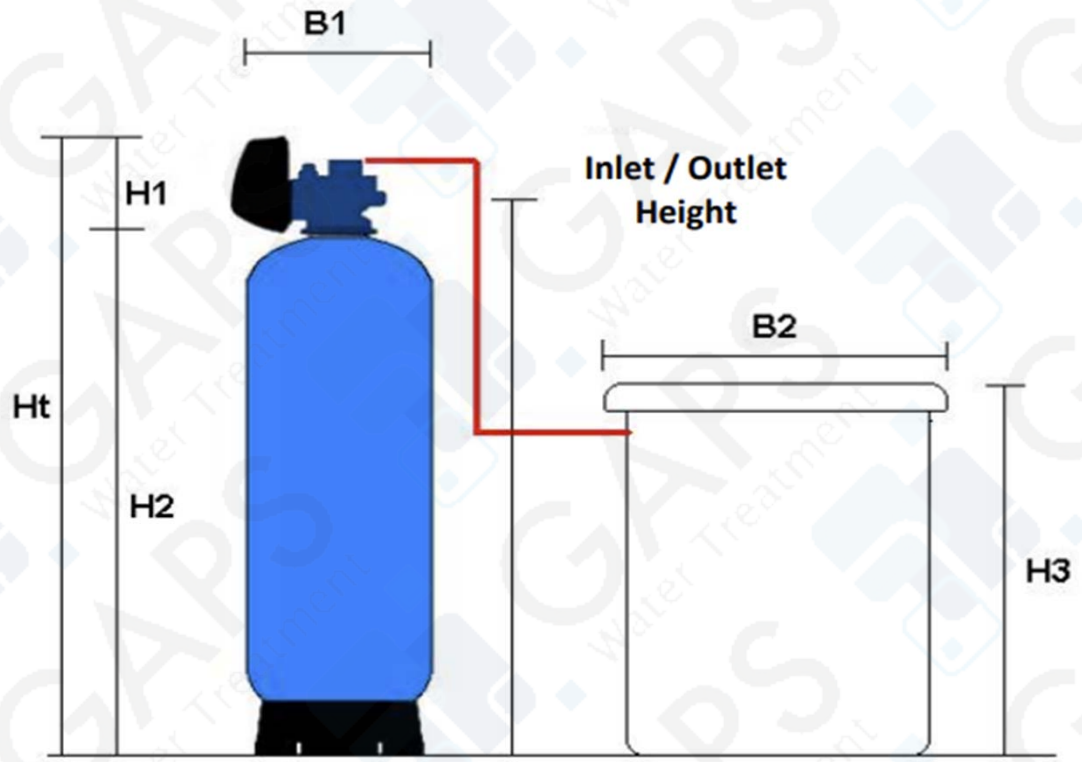
TECHNICAL DATA SHEET SIMPLEX SOFTENERS

CLACK WS1.5 CI

Dimensions (cm)



Resin litres	Valve H1	Vessel H2	Vessel H3	Brine Tank Ht	Inlet/Outlet Height	Vessel B1	Brine Tank B2	Weight Kg*
75 1354	20	167	83	187	172	37	67Ø	190
100 1475	20	167	83	187	172	37	67Ø	210
150 1655	20	168	101	188	172	41	76Ø	230
200 1865	20	179	101	199	187	51	76Ø	230
250 2160	20	163	101	183	171	56	76Ø	275
350 2469	20	188	111	208	196	61	100Ø	734
500 3072	20	188	129	208	196	61	107Ø	734

All measurements can vary due to the cooling process during manufacture of the vessels and brine tanks.

*Estimated weight of the system without water or salt

General conditions for installation

Connection IN & OUT:	1.5"
Option side mount:	n/a
Drain connection(*):	3/4" or 1" or 1.25" dependant on flow
Electrical rating:	230V 50 Hz 12V Transformer
max power rating:	6W
IP protection class:	Double Isolated Transformer
Minimum inlet pressure :	200 kPa (2 bar)
Maximum inlet pressure:	600 kPa (6 bar)
Vacuum:	no allowance
Average pressure loss (**):	100 kPa (1 bar)
Min-max water temperature:	5-35°C

Notes (*) Dependant on Drain line flow control.
(**) Under normal circumstances.
It is always recommended to install a 25µm cartridge filter before a softener.

Resin

Type: Strong acid cation resin - softening ,food grade quality
Life span: 15 years under normal circumstances

Ion Exchange (for average salt consumption of 150 g/l)

Resin volume (Litres)	75	100	150	200	250	350	500
Capacity CaCO3 (Kg)	3.8	5	7.5	10	12.5	17.5	25
Capacity at 300ppm CaCO3 (m^3)	12.5	16.7	25	33	41.6	58.3	83.3
Salt usage / regeneration (Kg)	11.3	15	22.5	30	37.5	52.5	75

Regeneration

Default start time is 2:00 AM, set on the timer as "Delayed Regeneration"
Options: TIME - VOLUME - IMMEDIATE - DELAYED - DAYS OVERRIDE - MANUAL REGNERATION

Resin volume (Litres)	75	100	150	200	250	350	500
Total Time (mins)	77	94	82	95	72	94	85

The interval between regenerations should not be more than 4 days, to prevent bacteria growth.
At least 8 hours between regenerations is required for the brine solution to form.

Flow Rate

Resin volume (Litres)	75	100	150	200	250	350	500
Nominal (m^3hr)	3	4	6	8	10	14	20
Minimum (LPH)	120						

Consumption of Rinse Water

Resin volume (Litres)	75	100	150	200	250	350	500
1.Backwash (litres)	80	95	132	170	246	310	470
2.Brining + Slow rinse (litres)	238	258	282	528	972	752	1197
4. Fast Rinse (litres)	60	80	159	204	295	450	950
Total (litres)	378	433	573	902	1513	1512	2617

Figures based on 60PSI pressure.