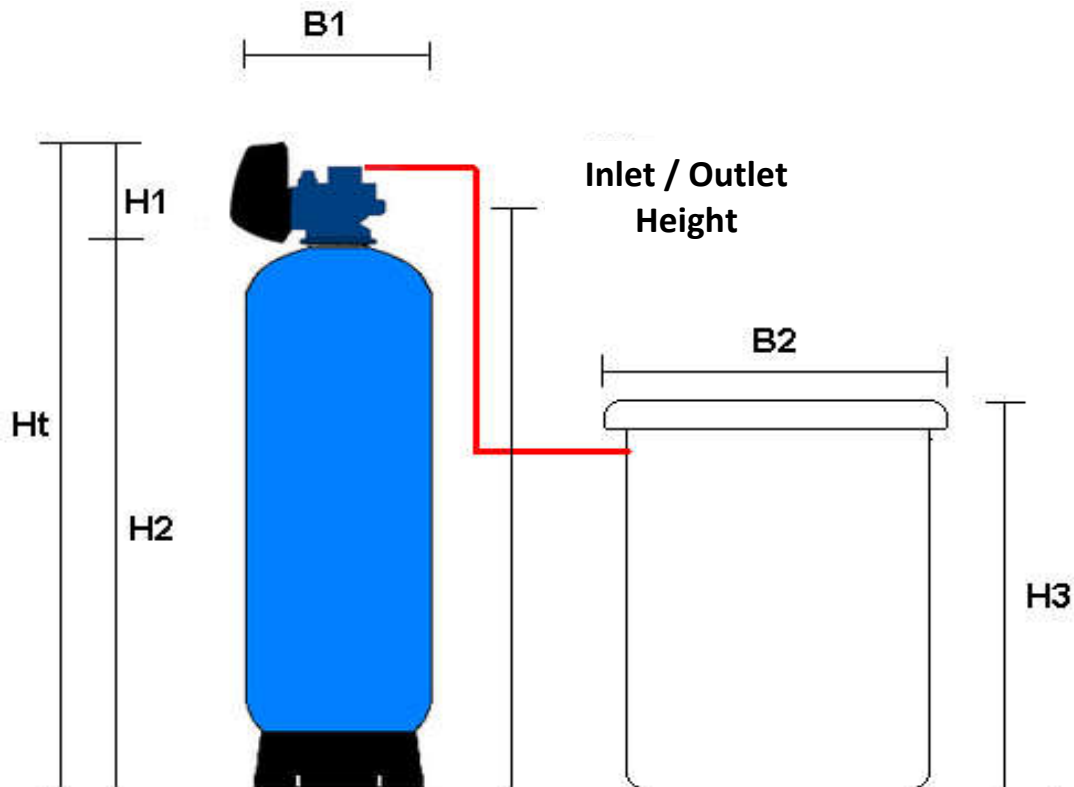


## TECHNICAL DATA SHEET SIMPLEX SOFTENERS

### CLACK WS1 CI

#### Dimensions (cm)



resin	valve H1	vessel H2	brine tank H3	softener Ht	Inlet / Outlet Ht	vessel B1	brine tank B2	weight (*) kg
20	19	91	44	110	98	22	32sq	27
30	19	91	89	110	98	27	32sq	40
40	19	113	84	132	120	27	44sq	50
50	19	140	84	159	147	27	44sq	65
60	19	125	84	144	132	32	44sq	75
75	19	140	83	159	147	35	67ø	90
100	19	168	83	187	175	37	67ø	118
125	19	168	83	187	175	37	67ø	140

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"  
 Option side mount: N/A  
 Drain connection(\*): 3/4" or 1" for DLFC flows over 10 gpm  
 Electrical rating: 230V 50Hz 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

Remarks

(\* ) Dependant on Drain line flow control.  
 (\*\*) Under normal circumstances.  
 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 circumstances

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

litres of resin	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>75</b>	<b>100</b>	<b>125</b>
Capacity kg CaCO <sub>3</sub>	1	1.5	2	2.5	3	3.8	5	6.3
M <sup>3</sup> @ 300ppm	3.3	5	6.6	8.3	10	13	17	21
Salt consumption Kg / Regen	3	4.5	6	7.5	9	11	15	19

**Regeneration**

Start : Default Time 2:00 am, set on the timer as ( delayed regeneration )  
 Options : TIME - VOLUME - IMMEDIATE - DELAYED - DAYS OVERRIDE  
 and manual regeneration.

Total time min :	67	79	71	81	73	75	97	97
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Remarks

The interval between egenerations should not be more than 4 days, to prevent bacteria growth.

**Flow rate**

	litres of resin	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>75</b>	<b>100</b>	<b>125</b>
Nominal	m <sup>3</sup> /h	0.8	1.2	1.6	2.0	2.4	3.0	4.0	5.0
Minimum	L/h	60							

**Consumption of rinse water**

	litres of resin	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>75</b>	<b>100</b>	<b>125</b>
1.Backwash	litres	32	52	52	52	74	95	95	95
2.Brining + Slow	litres	67	124	102	110	153	188	263	246
4.Fast rinse	litres	39	62	62	62	89	114	114	114
Total (***)	litres	138	238	216	224	316	397	472	455

(\*\*\*) Figures based on 60PSI pressure.