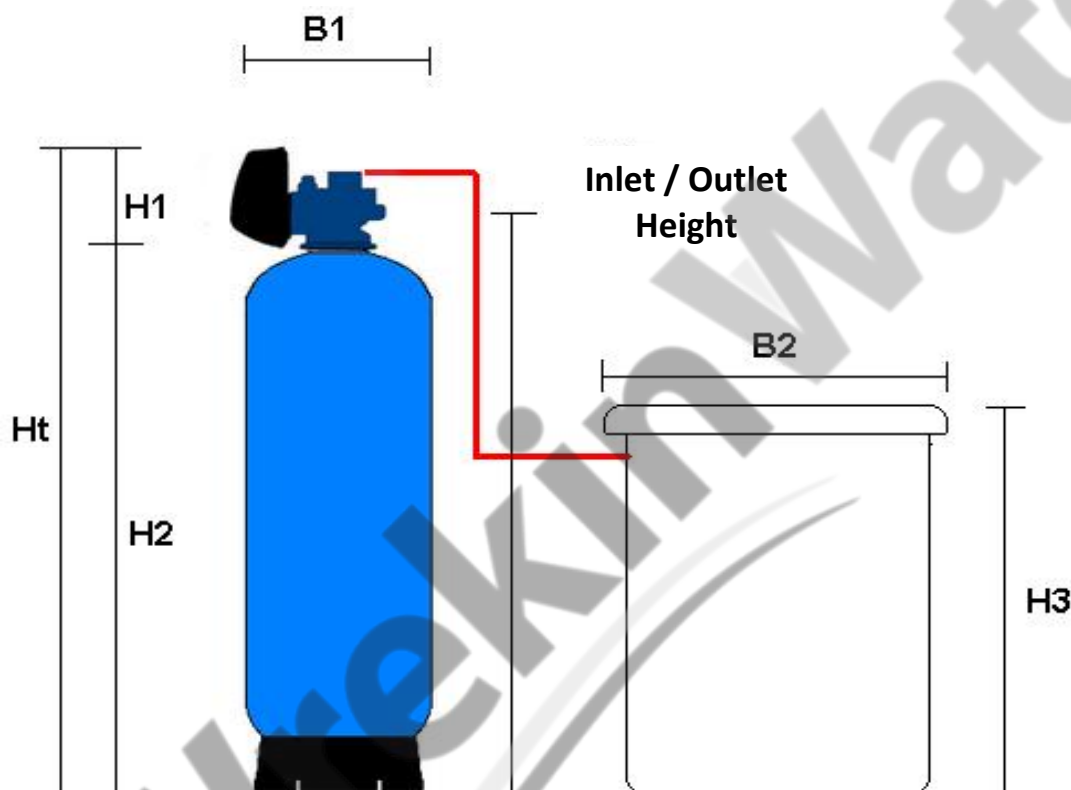


TECHNICAL DATA SHEET SIMPLEX SOFTENERS

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
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20 835	19	89	44	108	74	22	32sq	27
30 1035	19	89	89	108	94	27	32sq	40
40 1044	19	112	84	131	117	27	44sq	50
50 1054	19	139	84	158	144	27	44sq	65
60 1248	19	123	84	142	128	32	44sq	75
75 1354	19	140	83	159	145	34	67ø	90
100 1465	19	168	83	187	173	37	67ø	118
125 1465	19	168	83	187	173	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	20	30	40	50	60	75	100	125
Capacity kg CaCO ₃	1	1.5	2	2.5	3	3.8	5	6.3
M ³ @ 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	20	30	40	50	60	75	100	125
Nominal	m ³ /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	20	30	40	50	60	75	100	125
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.

10/12/2018