

TECHNICAL DATA SHEET DOMESTIC SOFTENERS
CLACK WS1 TC STE Duobloc
General conditions for installation

connection IN & OUT	:	1 "	
drain connection(*)	:	3/4 "	option tubing 5/8"
electrical rating	:	230V 50Hz	12V transformation
power rating	:	6 W	
minimum inlet pressure	:	200 kPa	(2 bar)
maximum inlet pressure	:	700 kPa	(7 bar)
vacuum	:	no allowance	
average pressure loss (**)	:	100 kPa	(1 bar)
maximum water temperature	:	43 °C	

Remarks

(*) without nuds and open at atmospheric pressure

(**) under normal circumstances - it is always recommended to install a 20µ-cartridge filter

Resin

type	:	strong acid cation resin - softening ,food grade quality
life span	:	15 years under normal circumstances

Ion exchange (for average salt consumption of 125 g/L)

		liters of resin	10	14	18	22	26	30
capacity	kg CaCO ₃		0,40	0,56	0,72	0,88	1,04	1,20
	°F x m ³		40	56	72	88	104	120
	dH x m ³		22	31	40	49	58	67
salt consumption	kg salt / kg CaCO ₃		3,3	3,4	3,6	3,0	3,1	3,2
	kg salt/regen.		1,3	1,9	2,6	2,6	3,2	3,8
		liters of resin	35	40	50	60	75	
capacity	kg CaCO ₃		1,58	1,80	2,25	2,70	3,75	
	°F x m ³		158	180	225	270	375	
	dH x m ³		88	101	126	152	211	
salt consumption	kg salt / kg CaCO ₃		2,9	2,8	2,8	2,9	2,6	
	kg salt/regen.		4,5	5,1	6,4	7,7	9,6	

Regeneration

start : 2:00 am , to set on the timer
 total time : max. 80 minutes
 chronometric : 1- 99 days between regeneration
 or day(s) of the week

Remark: running time should not be more than 4 days, to prevent eventual bacteria growth
 possibility to set a day override regeneration

Flow rate

		liters of resin	10	14	18	22	26	30
nominal	m ³ /h		0,5	0,7	0,9	1,1	1,3	1,5
	peak	m ³ /h	0,6	0,8	1,1	1,3	1,6	1,8
		liters of resin	35	40	50	60	75	
nominal	m ³ /h		1,6	1,8	2,3	2,7	3,4	
	peak	m ³ /h	1,9	2,2	2,5	3,3	4,1	

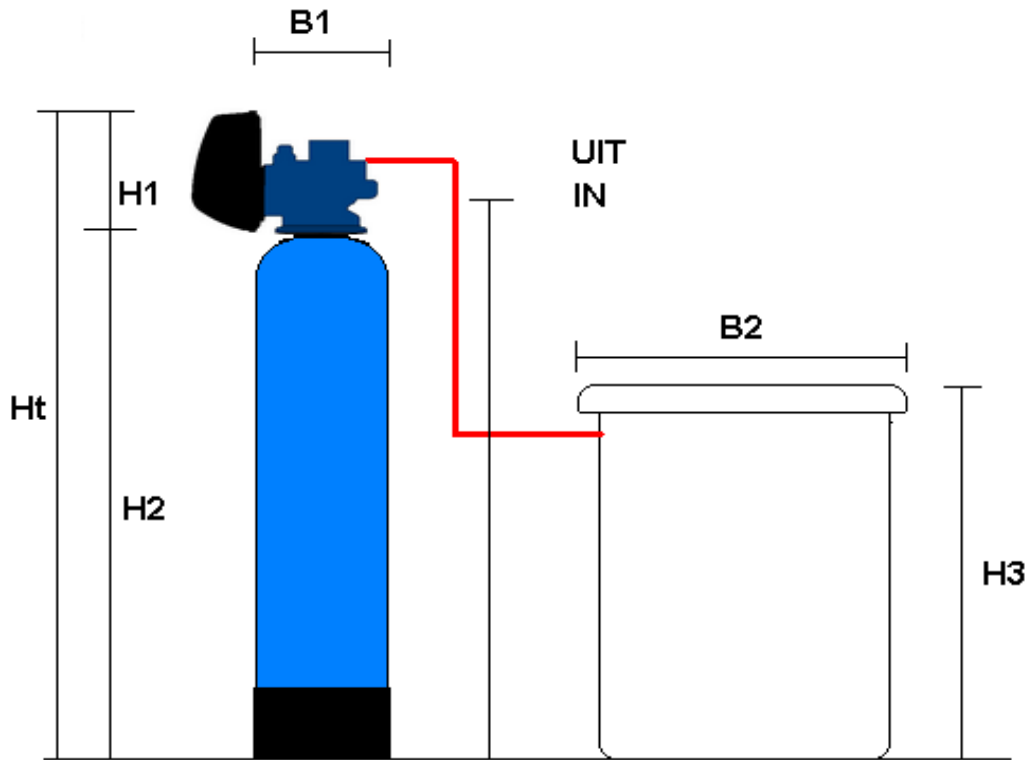
Consumption of rinse water

		liters of resin	10	14	18	22	26	30
1.Backwash	liters		30	40	40	50	65	65
2.Brining + Slow rinse	liters		35	35	50	50	55	55
4.2ndBackwash	liters		0	0	0	0	0	0
4.Fast rinse	liters		30	40	40	50	65	65
total liters	liters		95	115	130	150	185	185
		liters of resin	35	40	50	60	75	
1.Backwash	liters		65	65	65	95	130	
2.Brining + Slow rinse	liters		60	90	115	115	125	
4.2ndBackwash	liters		0	0	0	0	0	
4.Fast rinse	liters		65	65	65	95	130	
total liters	liters		190	220	245	305	385	

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Dimensions (cm)



resin L	valve H1	vessel H2	brine tank H3	softener Ht	IN&OUT	vessel B1	brine tank B2	weight (*) kg
10	19	91	86	110	94	16	48	122
14	19	91	86	110	94	19	48	130
18	19	91	86	110	94	19	48	132
22	19	91	86	110	94	21	48	141
26	19	91	86	110	94	21	48	149
30	19	91	86	110	94	26	48	161
35	19	113	86	132	116	26	48	173
40	19	113	86	132	116	26	48	176
50	19	139	86	158	142	26	48	197
60	19	124	86	143	127	31	48	219
75	19	138	79	157	141	34	68	347

(*) total weight of the unit in service and filled brine tank