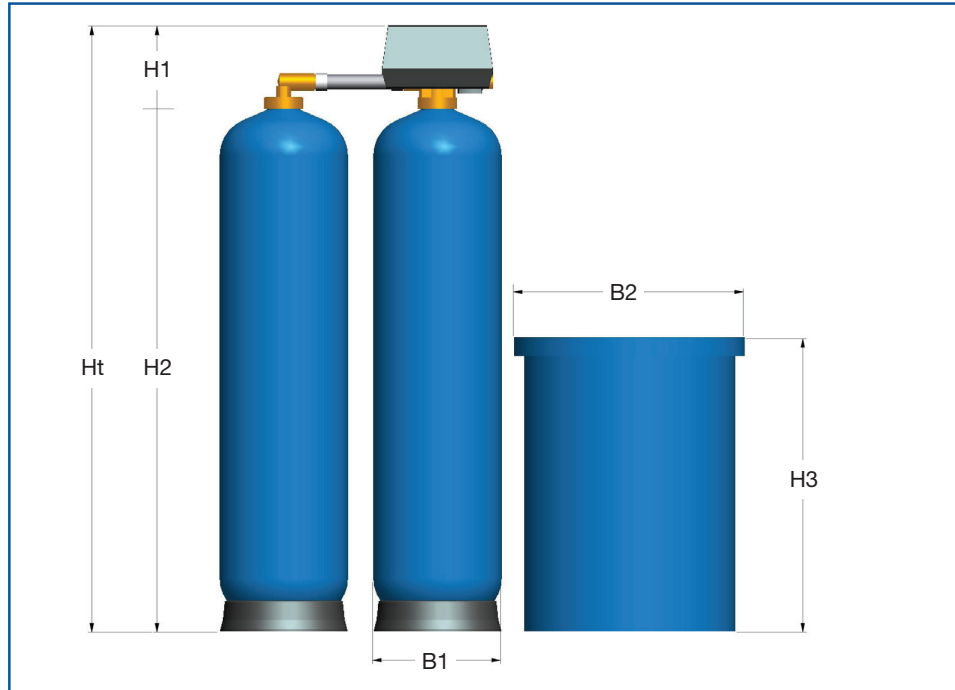


Fleck Duplex 9000



Dimensions (mm)

Resin Litres	Valve H1	Vessel H2	Vessel B1	Brine Tank H3	Brine Tank B2	Softener Ht	Inlet/Outlet
10	170	449	208	780	590	619	1"
20	170	904	208	780	590	1074	1"
25	170	905	233	780	590	1075	1"
30	170	905	257	780	590	1075	1"
40	170	1124	257	830	670	1294	1"
50	170	1387	257	830	670	1557	1"
60	170	1235	304	830	670	1405	1"
75	170	1374	334	1000	760	1544	1"
100	170	1660	369	930	870	1830	1"
120	170	1660	369	1230	860	1830	1"
140	170	1660	406	1230	860	1830	1"

General conditions for installation

Connection Inlet & Outlet	: 1" BSPF
Drain Connection *	: 1/2" Hose barb
Electrical Rating	: 230-24V / 50 Hz
Power Rating	: 8 watts
Minimum Inlet Pressure	: 200 kPa (2 Bar)
Maximum Inlet Pressure	: 700 kPa (7 Bar)
Vacuum	: Not permitted
Average Pressure Loss **	: 100 kPa (1 Bar)
Maximum Water Temperature	: 43°C

* Open drain required

** It is recommended that a 20µm Pre-cartridge filter be installed prior to the inlet of the water softener



Fleck Duplex 9000

Resin

Type : Strong acid cation resin - softening, food grade quality
 Life Span : 15 years under normal operating conditions

Ion exchange												
Litres of Resin		10	20	25	30	40	50	60	75	100	120	140
Softener Capacity as CaCO ³	200ppm	2.5m ³	5.0m ³	6.2m ³	7.5m ³	10m ³	12.5m ³	15m ³	18.7m ³	25m ³	30m ³	35m ³
	250ppm	2.0m ³	4.0m ³	5.0m ³	6.0m ³	8.0m ³	10m ³	12m ³	15m ³	20m ³	24m ³	28m ³
	300ppm	1.6m ³	3.3m ³	4.1m ³	5.0m ³	6.6m ³	8.3m ³	10m ³	12.5m ³	16.6m ³	20m ³	23.3m ³
Salt Consumption	kg/reg.	1.2	2.4	3.0	3.6	4.8	6.0	7.2	9.0	12.0	14.4	16.8

Flow rate												
Litres of Resin		10	20	25	30	40	50	60	75	100	120	140
	nominal m ³ /hr	0.5	1.0	1.3	1.5	1.8	2.3	2.7	3.0	3.0	3.5	3.5
	peak m ³ /hr	0.6	1.2	1.5	1.8	2.2	2.5	3.3	4.0	4.0	4.7	4.7
	minimum metered	60 Litres/Hour (¾" Meter) - 160 Litres/Hour (1" Meter)										

Regeneration

Start : Immediately after reaching the set capacity
 Manual : Manual operation as required
 Volume Immediate : 8 or 40 m³ (¾" Meter)
 : 20 or 100 m³ (1" Meter)
 : ¾" SE/SXT Meter (10 Litre - 100 Litre Softeners Only)

Remarks:

The interval between regenerations should not be more than 4 days, this is to prevent bacteria growth.
 Regenerations should be more than 8 hours apart.

Regeneration water usage												
Litres of Resin		10	20	25	30	40	50	60	75	100	120	140
1) Backwash	Litres	15	25	45	45	75	75	105	120	150	150	215
2) Brining + Slow Rinse	Litres	20	50	60	80	110	150	180	220	290	390	485
3) Fast Rinse	Litres	25	45	60	60	75	75	105	120	190	190	265
	Total	60	120	165	185	260	300	390	460	630	730	965

