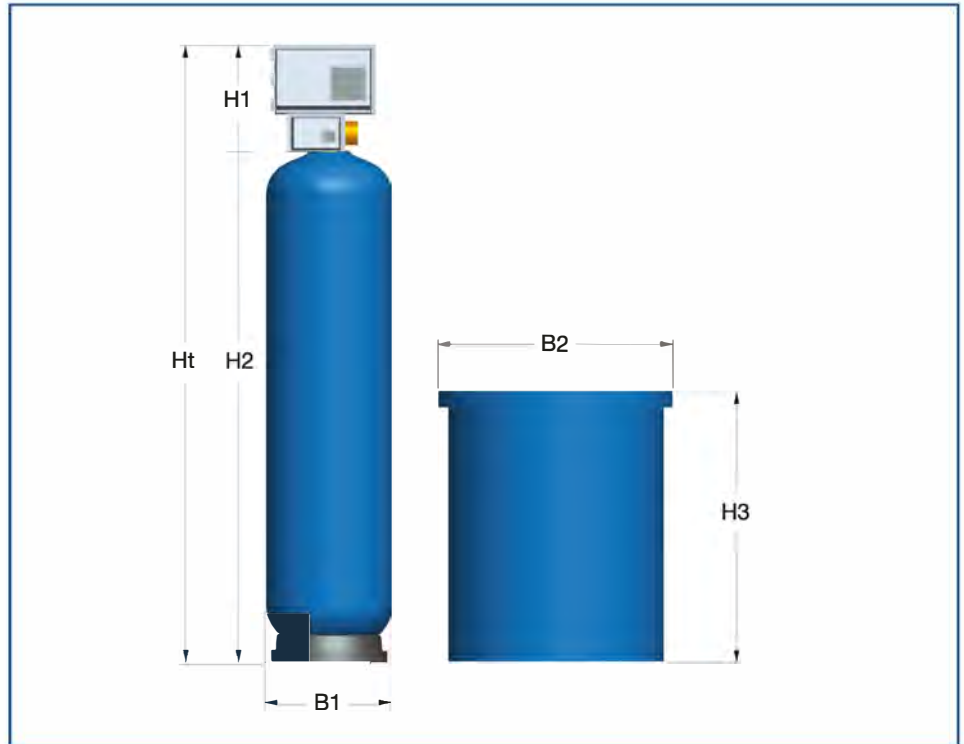


Monarch Simplex 2910



Dimensions (mm)							
Resin Litres	Valve H1	Vessel H2	Vessel B1	Brine Tank H3	Brine Tank B2	Softener Ht	Inlet/Outlet
100	320	1830	369	830	670	2150	2"
125	320	1830	369	830	670	2150	2"
150	320	1830	406	1000	760	2150	2"
200	320	1785	552	1000	760	2105	2"
250	320	1785	552	930	870	2105	2"
300	320	2025	610	930	870	2345	2"
350	320	2025	610	1230	860	2345	2"
400	320	2050	770	1230	860	2370	2"
500	320	2050	770	1230	860	2370	2"
700	320	2150	927	1100	1000	2470	2"

General conditions for installation

Connection Inlet & Outlet	: 2" BSPF
Drain Connection *	: 3/4" BSPF
Electrical Rating	: 230-24V / 50 Hz
Power Rating	: 65 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



Monarch Simplex 2910

Resin

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

Ion exchange											
Litres of Resin		100	125	150	200	250	300	350	400	500	700
Softener Capacity as CaCO ₃	200ppm	25m ³	31.2m ³	37.5m ³	50m ³	62.5m ³	75m ³	87.5m ³	100m ³	125m ³	175m ³
	250ppm	20m ³	25m ³	30m ³	40m ³	50m ³	60m ³	70m ³	80m ³	100m ³	140m ³
	300ppm	16.6m ³	20.8m ³	25m ³	33.3m ³	41.6m ³	50m ³	58.3m ³	66.6m ³	83.3m ³	116.6m ³
Salt Consumption	kg/reg.	13	15	18	26	31	36	46	51	61	71

Flow rate											
Litres of Resin		100	125	150	200	250	300	350	400	500	700
	nominal m ³ /hr	3,9	4,4	5,3	7,0	8,8	11	12	14	18	18
	peak m ³ /hr	4,6	5,0	6,0	8,0	10	12	14	16	20	23
	minimum metered	660 Litres/Hour									

Regeneration

Time Clock Version : 7 or 12 days (2.00am default time regeneration)
 Volume Delayed or Immediate : NXT Electronic
 Manual : Manual operation as required

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		100	125	150	200	250	300	350	400	500	700
1) Backwash	Litres	150	150	210	270	380	570	570	950	950	835
2) Brining + Slow Rinse	Litres	345	345	325	450	465	475	620	650	910	1805
3) Fast Rinse	Litres	190	190	270	370	530	800	800	1330	1330	1340
	Total	685	685	805	1090	1375	1845	1990	2930	3190	3980

