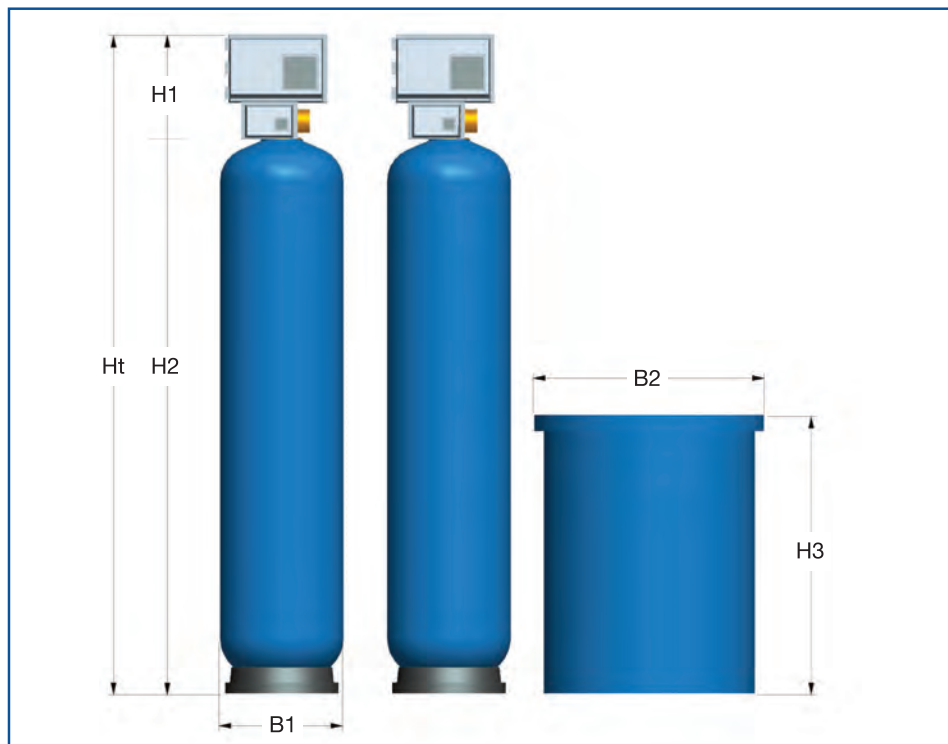


Monarch Duplex 2910



Dimensions (mm)							
Resin Litres	Valve H1	Vessel H2	Vessel B1	Brine Tank H3	Brine Tank B2	Softener Ht	Inlet/Outlet
125	320	1660	369	1230	860	1980	2"
150	320	1660	406	1230	860	1980	2"
200	320	1640	552	1100	1000	1960	2"
250	320	1640	552	1100	1000	1960	2"
300	320	1890	610	1100	1000	2210	2"
350	320	1890	610	1100	1000	2210	2"
400	320	1890	610	1100	1000	2210	2"
500	320	2050	770	1290	1070	2370	2"
600	320	2150	927	1500	1260	2470	2"
700	320	2150	927	1500	1260	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 Duplex 2910

Resin

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

Ion exchange											
Litres of Resin		125	150	200	250	300	350	400	500	600	700
Softener Capacity as CaCO ₃	200ppm	31.2m ³	37.5m ³	50m ³	62.5m ³	75m ³	87.5m ³	100m ³	125m ³	150m ³	175m ³
	250ppm	25m ³	30m ³	40m ³	50m ³	60m ³	70m ³	80m ³	100m ³	120m ³	100m ³
	300ppm	20.8m ³	25m ³	33.3m ³	41.6m ³	50m ³	58.3m ³	66.6m ³	83.3m ³	100m ³	116m ³
Salt Consumption	kg/reg.	15	18	24	30	36	42	48	60	72	84

Flow rate											
Litres of Resin		125	150	200	250	300	350	400	500	600	700
nominal m ³ /hr		4.4	5.3	7.0	8.8	11	12	14	18	18	18
peak m ³ /hr		5.0	6.0	8.0	10	12	14	16	20	20	20
minimum metered		660 Litres/Hour									

Regeneration

Start : Immediately after reaching the set capacity
 Manual : Manual operation as required
 Option : ES2050 Electronic Controller
 Meter Type : 2" Remote Meter : NXT Electronic System 7
 2" Multi-Jet Meter : ES2050 Electronic Controller

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		125	150	200	250	300	350	400	500	600	700
1) Backwash	Litres	150	210	270	380	570	570	950	950	835	835
2) Brining + Slow Rinse	Litres	345	325	450	465	475	620	650	910	1120	1805
3) Fast Rinse	Litres	190	270	370	530	800	800	1330	1330	1340	1340
Total		685	805	1090	1375	1845	1990	2930	3190	3295	3980

