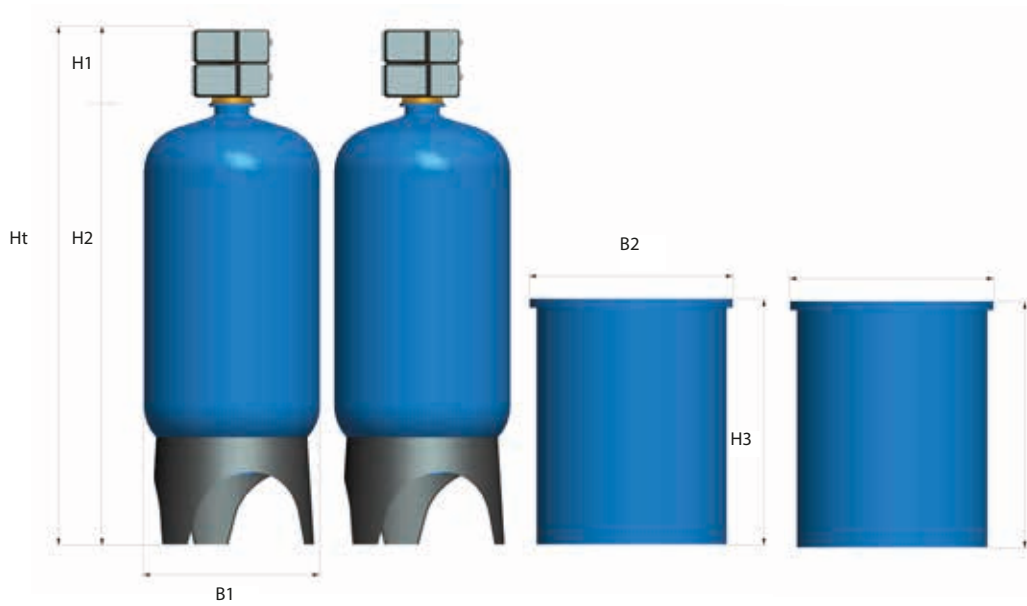


## DUPLEX SOFTENERS



## FLECK DUPLEX 3900

DIMENSIONS (MM)							
Resin Litres	Valve H1	Vessel H2	Vessel B1	Brine Tank H3	Brine Tank B2	Softener Ht	Inlet/ Outlet
700	395	2350	927	1310	1205	2795	3"
800	395	2350	927	1310	1205	2795	3"
900	395	2435	1074	1310	1205	2880	3"
1000	395	2435	1074	1310	1205	2880	3"
1100	395	2435	1074	1310	1205	2880	3"
1200	395	2450	1226	1500	1260	2895	3"
1300	395	2450	1226	1500	1260	2895	3"

3900 ES2050 METER CONTROLLED	
FLD39ES700	700 Litre, ES2050 Meter Controlled, 36" x 78" tank, 2 x BT 1000, 25m <sup>3</sup> /hr
FLD39ES800	800 Litre, ES2050 Meter Controlled, 36" x 78" tank, 2 x BT 1000, 28m <sup>3</sup> /hr
FLD39ES900	900 Litre, ES2050 Meter Controlled, 42" x 78" tank, 2 x BT 1000, 32m <sup>3</sup> /hr
FLD39ES1000	1000 Litre, ES2050 Meter Controlled, 42" x 78" tank, 2 x BT 1000, 35m <sup>3</sup> /hr
FLD39ES1100	1100 Litre, ES2050 Meter Controlled, 42" x 78" tank, 2 x BT 1000, 39m <sup>3</sup> /hr
FLD39ES1200	1200 Litre, ES2050 Meter Controlled, 48" x 82" tank, 2 x BT 1750, 42m <sup>3</sup> /hr
FLD39ES1300	1300 Litre, ES2050 Meter Controlled, 48" x 82" tank, 2 x BT 1750, 42m <sup>3</sup> /hr

## GENERAL CONDITIONS FOR INSTALLATION

Connection Inlet & Outlet	3" BSPF
Drain Connection *	2" BSPM
Electrical Rating	230-24V / 50 Hz
Power Rating	340 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 to install a 25µm prefilter prior to the inlet of the water softener.  
Please consult our Cintropur range of filters - page 202

## RESIN

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

ION EXCHANGE								
Litres of Resin		700	800	900	1000	1100	1200	1300
Softener Capacity	200ppm	175m <sup>3</sup>	200m <sup>3</sup>	225m <sup>3</sup>	250m <sup>3</sup>	275m <sup>3</sup>	300m <sup>3</sup>	325m <sup>3</sup>
as CaCO <sup>3</sup>	250ppm	140m <sup>3</sup>	160m <sup>3</sup>	180m <sup>3</sup>	200m <sup>3</sup>	220m <sup>3</sup>	240m <sup>3</sup>	260m <sup>3</sup>
	300ppm	116.6m <sup>3</sup>	133m <sup>3</sup>	150m <sup>3</sup>	166m <sup>3</sup>	183m <sup>3</sup>	200m <sup>3</sup>	216m <sup>3</sup>
Salt Consumption	kg/reg.	89	102	115	125	143	153	179

FLOW RATE								
Litres of Resin		700	800	900	1000	1100	1200	1300
nominal m <sup>3</sup> /hr		25	28	32	35	39	42	42
peak m <sup>3</sup> /hr		28	32	36	40	44	48	52
minimum metered		780 Litres/Hour						

## REGENERATION

Start		Immediately after reaching the set capacity
Manual		Manual operation as required
Option		ES2050 Electronic Controller
Meter Type	3" Remote Meter	NXT2 Electronic System 7
	3" Woltman 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		700	800	900	1000	1100	1200	1300
1) Backwash	Litres	1330	1330	1900	1900	2660	2660	2660
2) Brining + Slow Rinse	Litres	790	1240	1090	1190	1250	1340	1820
3) Fast Rinse	Litres	2130	2130	3040	3040	4250	4250	4250
	Total	4250	4700	6030	6130	8160	8250	8730