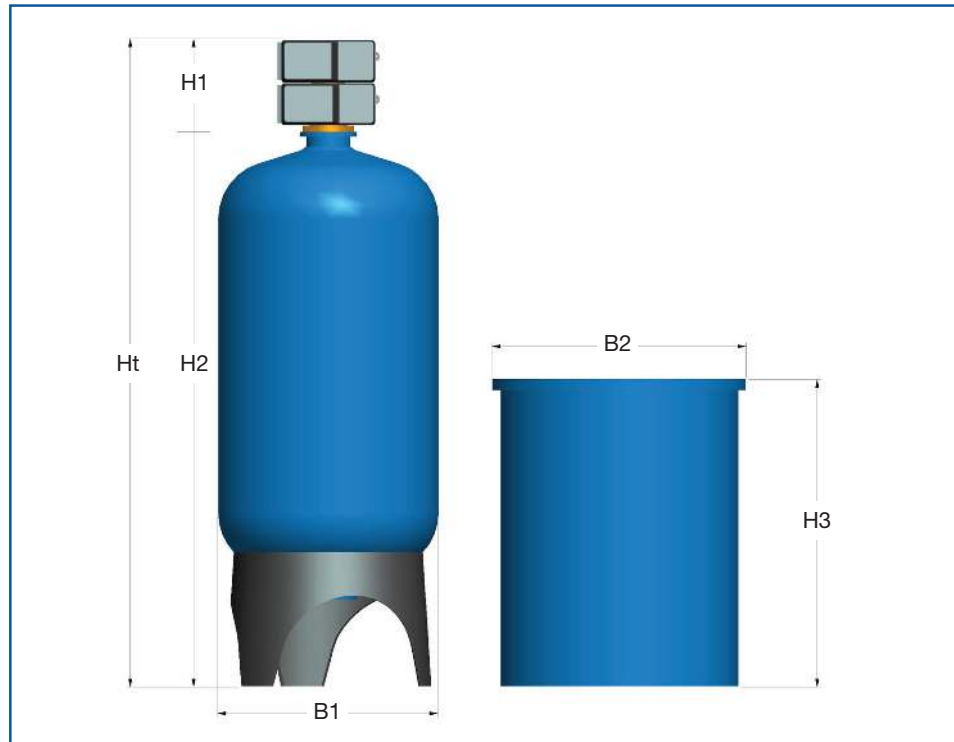


Fleck Simplex 3900



Dimensions (mm)

| Resin Litres | Valve H1 | Vessel H2 | Vessel B1 | Brine Tank H3 | Brine Tank B2 | Softener Ht | Inlet/Outlet |
|--------------|----------|-----------|-----------|---------------|---------------|-------------|--------------|
| 400 | 395 | 2300 | 770 | 1230 | 860 | 2745 | 3" |
| 500 | 395 | 2300 | 770 | 1230 | 860 | 2745 | 3" |
| 600 | 395 | 2350 | 927 | 1100 | 1000 | 2795 | 3" |
| 700 | 395 | 2350 | 927 | 1100 | 1000 | 2795 | 3" |
| 800 | 395 | 2350 | 927 | 1100 | 1000 | 2795 | 3" |
| 900 | 395 | 2435 | 1074 | 1290 | 1070 | 2880 | 3" |
| 1000 | 395 | 2435 | 1074 | 1290 | 1070 | 2880 | 3" |
| 1100 | 395 | 2435 | 1074 | 1500 | 1260 | 2880 | 3" |
| 1200 | 395 | 2450 | 1226 | 1500 | 1260 | 2895 | 3" |
| 1300 | 395 | 2450 | 1226 | 1500 | 1260 | 2895 | 3" |

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



Fleck Simplex 3900

Resin

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

| Ion exchange | | | | | | | | | | | |
|--|---------|--------------------|--------------------|-------------------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Litres of Resin | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 |
| Softener Capacity as CaCO ³ | 200ppm | 100m ³ | 125m ³ | 150m ³ | 175m ³ | 200m ³ | 225m ³ | 250m ³ | 275m ³ | 300m ³ | 325m ³ |
| | 250ppm | 80m ³ | 100m ³ | 120m ³ | 140m ³ | 160m ³ | 180m ³ | 200m ³ | 220m ³ | 240m ³ | 260m ³ |
| | 300ppm | 66.6m ³ | 83.3m ³ | 100m ³ | 116.6m ³ | 133m ³ | 150m ³ | 166m ³ | 183m ³ | 200m ³ | 216m ³ |
| Salt Consumption | kg/reg. | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 132 | 144 | 156 |

| Flow rate | | | | | | | | | | | |
|-----------------|----------------------------|------------------|-----|-----|-----|-----|-----|------|------|------|------|
| Litres of Resin | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 |
| | nominal m ³ /hr | 14 | 18 | 21 | 25 | 28 | 32 | 35 | 39 | 42 | 42 |
| | peak m ³ /hr | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 48 |
| | minimum metered | 1660 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 | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 |
| 1) Backwash | Litres | 950 | 950 | 950 | 1330 | 1330 | 1900 | 1900 | 2660 | 2660 | 2660 |
| 2) Brining + Slow Rinse | Litres | 450 | 650 | 870 | 790 | 1240 | 1090 | 1190 | 1250 | 1340 | 1820 |
| 3) Fast Rinse | Litres | 1330 | 1330 | 1520 | 2130 | 2130 | 3040 | 3040 | 4250 | 4250 | 4250 |
| | Total | 2730 | 2930 | 3340 | 4250 | 4700 | 6030 | 6130 | 8160 | 8250 | 8730 |

