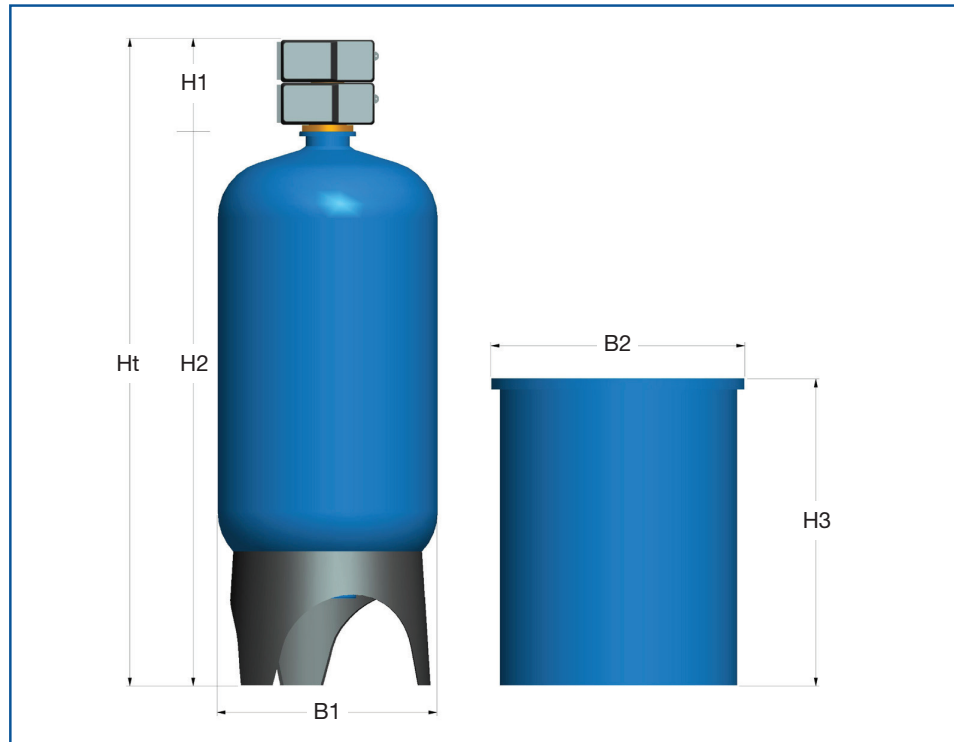


# Fleck Simplex 3900



## 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 <sub>3</sub> | 200ppm  | 100m <sup>3</sup>  | 125m <sup>3</sup>  | 150m <sup>3</sup> | 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> |
|                                        | 250ppm  | 80m <sup>3</sup>   | 100m <sup>3</sup>  | 120m <sup>3</sup> | 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  | 66.6m <sup>3</sup> | 83.3m <sup>3</sup> | 100m <sup>3</sup> | 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. | 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 <sup>3</sup> /hr |  | 14               | 18  | 21  | 25  | 28  | 32  | 35   | 39   | 42   | 42   |
| peak m <sup>3</sup> /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 |



We reserve the right to alter specifications without prior notice. E&OE