



BI-BLOCK WATER SOFTENER • CE 1" VALVE

Regal 750

A ready-to-commission bi-block softener built around a 13" × 54" pressure tank and a pre-configured CE 1" control valve, supplied with 75 L of ion exchange resin and a 125 L overflow-protected brine tank for 3.5 m³/h of continuous soft water.

13" × 54"

75 L RESIN

125 L BRINE

15 M³ CAPACITY

RF1354CE



WHY SPECIFY IT

Sized, filled and pre-configured.

A complete bi-block set: injector and DLFC selected and fitted, CE valve pre-programmed, resin bed charged. Commissioning is plumbing and salt, not a build.



Supplied with media

75 L of PC002 ion exchange resin loaded in a 105 L, 13" × 54" pressure tank on a 2.5" mounting base, riser and bottom stack fitted.



Metered CE 1" control

Regeneration by water volume, either delayed or immediate, with adjustable cycle stages, twin and duplex configurations.



Overflow-protected brine tank

A 125 L brine cabinet with brine well, brine valve and overflow set fitted as standard.

3.5m³/h

OPERATING FLOW

15.0m³

VOLUME CAPACITY

75L

RESIN VOLUME

125L

BRINE TANK

4.3m³/h peak flow

Headroom for peak draw

Rated at 3.5 m³/h continuous with 4.3 m³/h available on peak, the Regal 750 absorbs morning and shift-change demand without dropping hardness breakthrough. Each regeneration consumes 7.5–12.0 kg of salt and returns 15 m³ of soft water, measured on the integral meter rather than a clock.



SPECIFICATIONS

Technical detail.

Model	Regal 750	Operating flow rate	3.5 m ³ /h
Code	RF1354CE	Maximum flow rate	4.3 m ³ /h
Datasheet ref	SWC-REG750-26-R0	Volume capacity	15.0 m ³
Control valve	CE 1" metered	Inlet / outlet	G 1"
Pressure tank	13" × 54" · 2.5" base	Drain · brine line	G ¾" · G ⅜"
Pressure tank volume	105 L	Operating pressure	2 – 6 bar
Media	PC002 resin · 75 L	Operating temperature	+4 ... +30 °C
Brine tank	15×17×36 · 125 L	Power	230 V · 50/60 Hz · 30 W
Regeneration	Delayed / immediate / both	Dimensions H×W×D	1585 × 900 × 450 mm
Salt per regeneration	7.5 – 12.0 kg	System weight	100 kg

FEED WATER LIMITS

≤ 750 mg/L HARDNESS CaCO ₃	≤ 0.2 mg/L IRON	≤ 0.05 mg/L MANGANESE	5 mg/L O ₂ COD	0.5 mg/L AMMONIUM
--	--------------------	--------------------------	------------------------------	----------------------

HOW IT WORKS

From hard to soft water.

01 Hard water in	02 75 L resin bed	03 Ion exchange	04 Metered brine regen	05 Softened out
---------------------	----------------------	--------------------	---------------------------	--------------------

SCOPE OF SUPPLY

What we provide.

- ✓ CE 1" valve assembly with 11-segment top stack distributor
- ✓ Injector and DLFC, selected and installed for this vessel
- ✓ 13" × 54" pressure tank, riser and bottom stack distributor
- ✓ 125 L brine tank with brine well, brine valve and overflow set
- ✓ 75 L PC002 ion exchange resin, loaded
- ✓ 1" connection kit, power supply, funnel and manuals
- ✓ Optional Comprehensive Maintenance plan

Options and where it fits

Specified for hospitality, healthcare, estates and light-industrial sites drawing 3–4 m³/h. Bypass assembly, no-bypass valve, auxiliary microswitch, motorised alternating valve and vertical bypass adapter are available as additional equipment. Multilingual valve menu: EN · DE · FR · UK.

[COMMERCIAL · BY QUOTE](#)

REQUEST A QUOTE

Specify the Regal 750 for your site.

British-engineered, European-manufactured. UK · Middle East · Europe.

+44 20 8050 2115

sales@sovereignwater.co.uk

124 City Road, London EC1V 2NX