picture: DUOTROL 2900

DUOTROL 500 - 1400
Duplex Water Softeners - volume controlled

Automatic, volume-controlled duplex softener producing soft water by means of ion-exchange. Regeneration is initiated automatically as soon as the water amount set has been consumed.

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Unit design

Two ion-exchange tanks made of glass-fibre reinforced plastic with PE inliner, ion exchange resin, and supporting gravel for on-site filling.

ABS main control valve for each ion exchange tank (concurrent flow)

Brine tank with salt tray, support, two standpipes, two brine valves, and plastic lid

Pre-mounted piping with manual shut-off valvesin the inlet and outlet pipe of each filter.

During regeneration, the soft water connection is **automatically locked** by an operating valve

Cam drive controlling a hydraulically operated main control valve on each exchange vessel

Manometer for raw water pressure, manometer for soft water pressure

Water meter for exact determination of the soft water amount produced

Salt empty switch in the brine tank

Microprocessor control, type Softrol, in a wall-mounted casing for fully automatic operation. Initiation of regeneration and change to the 2nd ion-exchange tank as soon as the water amount set has been consumed; display (16 characters, 2 lines) with menu operation.
In the event of power failure, the basic programming will be stored in the Flash-EEPROM for 60 months.

Relay outputs for

- any switching device (universal output; voltage-free change over contact)
- production message for tank 1/tank 2 (voltage-free change over contact)
- regeneration tank 1 (voltage-free NO contact)
- regeneration tank 2 (voltage-free NO contact)
- malfunction (voltage-free change over contact)

Options:

- WUP-D7 / -D8 guarantees minimum flowrate
- Skids RD 500 to RD 1400 incl. assembly of the filled water softening installation. Additional components such as backflow preventer, fine filter, and blending device will be mounted on the skid when ordered.
- Blending device VSE
- Regeneration with brine

Technical Data		**DUOTROL 500**	**DUOTROL 600**	**DUOTROL 800**	**DUOTROL 1000**	**DUOTROL 1400**
Nominal capacity	m³ x °dH	500	600	800	1000	1400
Capacity	m³/h	5.0	6.0	8.0	10.0	14.0
Pressure drop	bar	1.2	1.3	1.5	1.6	2.9
Min. flow	m³/h	0.65	0.75	1.00	1.25	1.75
Salt consump./reg.	kg	25	30	40	50	70
Flushing water per regeneration	l	920	1183	1578	1920	2688
Flushing water flow max.	m³/h	1.5	1.9		2.9	
Raw / soft water connection		Rp 1 1/4"/DN 32	Rp 2"/DN 40		Rp 2"/R 1 1/2"	
Volume brine tank	l	300		500		750
Height brine tank	mm	1050		1280		1034
Diameter (outside) brine tank	mm	750		870		1170
Height	mm	2250	2450		2300	2500
Width	mm	1750	2050	2200	2250	2550
Depth	mm	750		900	900	1200
Item no.		360 085	360 086	360 087	360 088	360 089
Voltage 230/50 V/Hz, Operating pressure min./max. 3/6 bar, Pressure fluctuation max. ± 0.5 bar, Operating temperature min./max. 5/35 °C						