



Sovereign
Water Systems

REGAL WATER SOFTENERS

Ultra-compact dimensions and Clack® DV valve make these softeners both space-saving and reliable. The compact design of the smallest model is combined with high flow and softening capacity due to the unique 10×13 mineral tank size, it fits easily under the kitchen sink.



**LITTLE
EFFICIENT
SPACE-SAVING
SOFTENER**

COMPONENTS

- Pre-adjusted US-made Clack® DV with mixing valve
- Cabinet enclosure
- Pressure tank
- Brine well with safety float valve

REGAL COMPACT WATER SOFTENERS

Code	Description	Quantity of resin, L
SVN1016CABDVUPBT	Regal 150	15

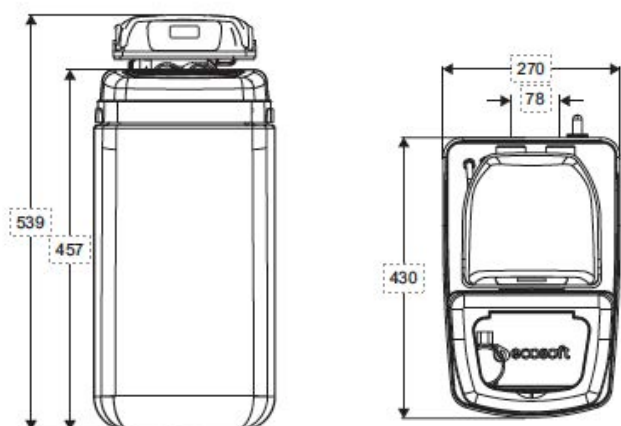
KEY FEATURES

- Ultra-compact dimensions
- Reliable US-made Clack® DV with mixing valve
- Up-flow proportional regeneration for smart consumption
- Effective salt consumption: 80 grams per liter of resin or less
- Water-saving: uses up to 100 liters for regeneration

Control valve

Clack® DV

- Renewed Clack® DV
- Ceramic-ceramic disks
- Diamond-carbon coating



TECHNICAL SPECIFICATION

Parameter	SVN1016CABDVUPBT
Operating flow rate, m ³ /h	1.3 / 1.5
Quantity of media, L	15
Volume capacity, m ³ 250 mg/L CaCO ₃ influent harness	3
Usage of salt per regeneration, kg	1.5
Usage of water per regeneration (discharge per regeneration), m ³	0.1
Duration of regeneration, minutes	80–110
Pressure drop in service mode, bar	0.5
Inlet pressure, bar	2–6
Electrical requirements	230 V, 50 Hz
Power consumption, W	30
Inlet/outlet pipe connections	3/4"
Dry weight, kg	0
Overall dimensions, (Width × Depth × Height), mm	270 × 430 × 539

INFLUENT WATER LIMITATIONS

Parameter	
Hardness	750 mg/L CaCO ₃
Iron	0.2 mg/L
Manganese	0.05 mg/L
Chemical Oxygen Demand	5 mg/L O ₂
Sediment prefilter rating	100 μm
Temperature of water	+4...+30 °C

Regal

Softeners

These softeners provide up to 3 m³ of water per hour, and a large salt capacity. These softeners provide low salt consumption, easy maintenance, and efficiency. A full tank of salt is enough for a 15-month* run before the next salt refill.



KEY FEATURES

- Reliable US-made Clack® DV valve with diamond-carbon coating
- Increased salt capacity: up to 130 kg
- Built-in mixing valve
- Effective salt consumption: up to 80 grams per liter of resin or less
- Water-saving: 100 liters for regeneration
- Possibility to configure Up-flow proportional regeneration for smart consumption

Control valve

Clack® DV

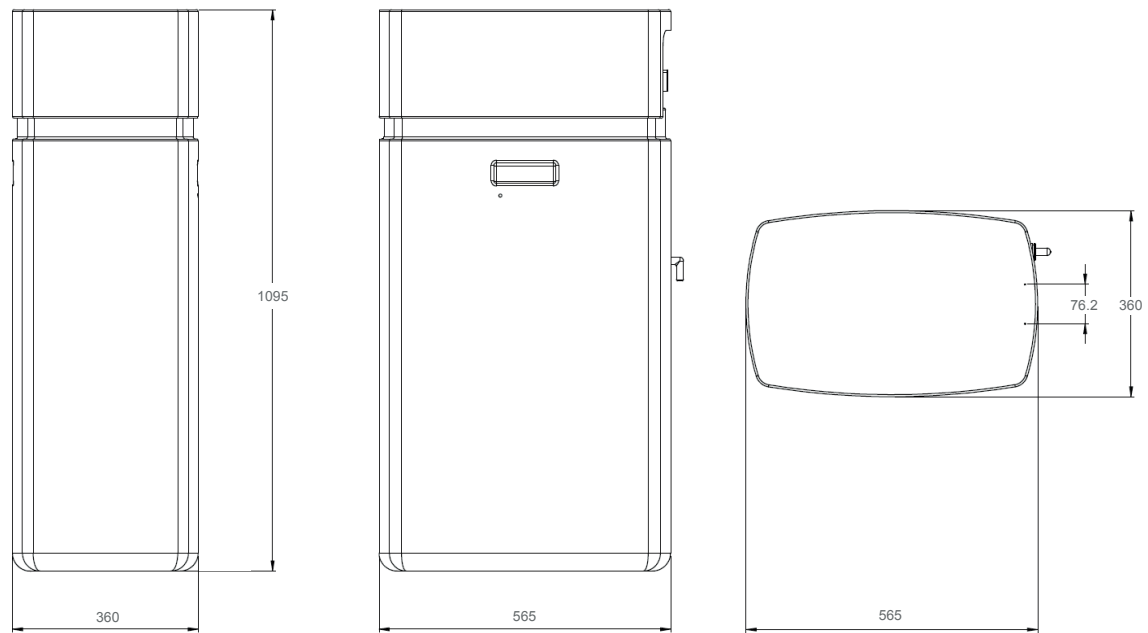
- Renewed Clack® DV
- Ceramic-ceramic disks
- Diamond-carbon coating

REGAL SOFTENERS

Code	Description	Quantity of resin, L	Operating/maximum flow rate, m ³ /h	Dimensions, H × W × D, mm
SU1035CABGDV	Regal 250 softener	25	2.0 / 2.5	1095 x 360 x 565
SU1252CABGDV	Regal 370 softener	37	2.5 / 2.9	



Sovereign
Water Systems



TECHNICAL SPECIFICATION:

Parameter	FU1035CABGDV	FU1235CABGDV
Operating/maximum flow rate, m ³ /h	2.0 / 2.5	2.5 / 2.9
Quantity of resin, L	25	37
Volume capacity, m ³ @ 250 mg/L CaCO ₃ influent hardness	5	7.5
Usage of salt per regeneration, kg	2.0-4.0	3.0-6.0
Usage of water per regeneration (= discharge per regeneration), m ³	0.10-0.25	0.10-0.37
Duration of regeneration, minutes	80-100	
Pressure drop in service mode, bar	0.5	
Inlet pressure, bar	2-6	
Electrical requirements	230 V, 50 Hz	
Power consumption, W	30	
Inlet/outlet pipe connections	1"	
Overall dimensions, (Width × Depth × Height), mm	360 x 565 x 1095	

INFLUENT WATER LIMITATIONS:

Parameter	FU1035CABGDV	FU1235CABGDV
Hardness	750 mg/L CaCO ₃	
Iron	0.2 mg/L	
Manganese	0.05 mg/L	
Chemical Oxygen Demand	5 mg/L O ₂	
Sediment prefilter rating	100 μm	
Temperature of water	+4...+30 °C	

SOFTENER ASSY W/O MEDIA 10x54, 1" CE valve

SET OF EQUIPMENT

- CE 1" control valve¹
- Pressure tank 10x54, 2,5"²
- Brine tank³

¹CE 1" valve assembly (V1CEDME):

- CE 1" control valve
- Top stack distributor, 11 segments
- Connection kit 1"
- Power supply
- Injector, DLFC - for Ecomix and cation exchange resin
- Funnel
- Valve instruction manual, Instruction manual

²Pressure tank assembly:

- Pressure tank 10x54, 2,5"
- Riser
- Bottom stack distributor

³Brine tank assembly

- Brine tank 15x17x36, 125 L
- Brine well assembly (brine valve, overflow set)

KEY FEATURES

- Ready sets for different filtration medias
- Basic set ready to work with Ecomix and cation exchange resin*
- Overflow protection of the brine tank
- The set is designed for convenient and quick installation

CE CONTROL VALVE KEY FEATURES

- Regeneration control by water volume: delayed regen, immediate, both
- Possibility to change the cycle of regeneration stages and their range of time
- Multilanguage menu: English, German, French, Ukrainian
- Different setting modes are available:
 - Twin or duplex configurations
 - Up to 6 systems to the system controller
 - 2 external devices simultaneously can be connected

PHYSICAL PARAMETERS

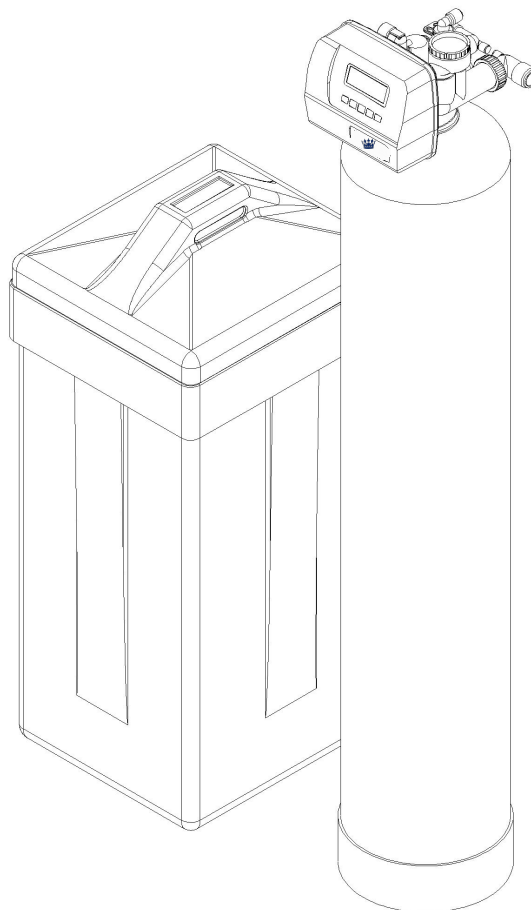
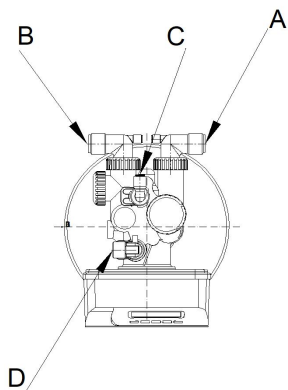
Inlet, outlet	G 1"
Drine	G 1"
Brine line	G 3/8"
Operating pressure	2 - 6 bar
Operating temperature	+4...+30 °C
Electrical requirements	230 V, 50 Hz
Electrical power	30 W
Volume of pressure tank	63 L
The volume of the rounded side	2,5 L
Volume of brine tank	125 L
Dry system weight	15 kg

Softener assy w/o media, 1" CE valve

Code	Product	Water flow rate**	
		Service, m ³ /h (pressure drop 1 bar)	Backwash, m ³ /h (pressure drop 1,7 bar)
RF1054CE	Softener assy w/o media 10x54, 1" CE valve	6,12	6,12



CONNECTIONS



Marking	Nomenclature	Connection	Height
A	Inlet	PH G 1"	1435±30
B	Outlet	PH G 1"	1435±30
C	Brine line	PH G 3/8"	1530±30
D	Drain	PH G 3/4"	1540±30

DIMENSIONS OF SYSTEM

