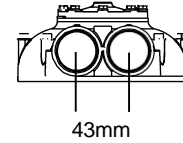




System Components

Media Vessel (Qty.) Size	(2) 152 mm x 533 mm
Media Vessel Construction	Engineered Plastic
Media Type	Cation Resin
Media Volume – Premio, DuoPlus, DuoPlusLFT	2x9.0 litres
Media Volume – Solo, Ultra, Duo, DuoLFT, HW65DNE	2x4.6 litres
Bed Depth	Packed
Free Board	None
Riser Tube	25 mm ABS
Under bedding	None
Regeneration Control	Water driven meter control
Regeneration Type	Countercurrent
Meter Type	1.1 - 94 Lpm Polypropylene Turbine



Inlet Water Quality

Pressure Range	1 – 8.3 Bar Dynamic Pressure
Temperature Range	2 – 50° C
pH Range	5 – 10
Free Chlorine Cl ₂ (Max.)	2.0 ppm
Hardness as CaCO ₃ (Max.)	855 ppm

Operating Specifications

Flow Range	0.2 – 70 lpm
Flow Config – Premio, Plus range	Duplex Parallel
Flow Config – Solo, Ultra, Duo range, HW65DNE	Duplex Standby
Dimensions (W x D x H) Premio, Plus range	300 x 625 x 730 mm
Dimensions (W x D x H) Solo, Duo, HW65DNE	250 x 490 x 500 mm
Dimensions (W x D x H) Ultra	268 x 490 x 500 mm
Weight (Operating / Shipping) – Premier etc.	49.4 Kg / 31.75 Kg
Weight (Operating / Shipping) – Solo etc.	32.8 Kg / 20.75 Kg

Connections

Inlet / Outlet Connections	3/4" or 1" MBSP - specify
Drain Connection12mm barb
Brine Line Connection025" tube
Overflow Connection12mm barb
Power requirement	No electric supply is required

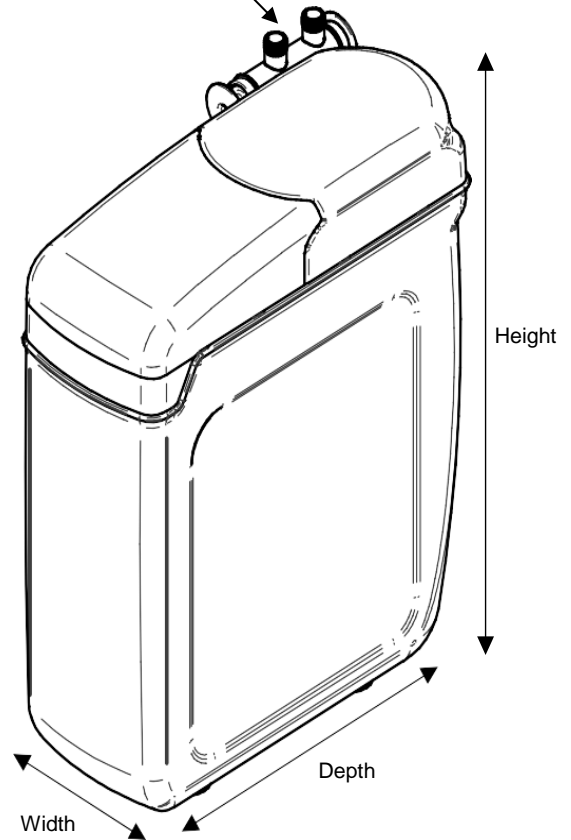
Model Codes

Solo	PSC026
Ultra	PSC027
Premio	PSP028
Duo	DP024
DuoPlus	DP025
DuoLFT	DP026
DuoPlusLFT	DP027
HW65DNE	DP028

Regeneration Specifications

Regeneration Volume – Premio etc	22 litres
Regeneration Time – Premio etc	11 minutes
Regeneration Volume – Solo etc	17 litres
Regeneration Time – Solo etc	11 minutes

Premio model shown for illustration purposes only. Pic shows optional bypass



Disc Selection (Hardness)

Premio, DuoPlus & DuoPlusLFT

Salt use per regen 0.57 Kg	Salt storage 8x4kg blocks	Meter Disc No / Hardness in ppm							
		1/102	2/222	3/332	4/445	5/547	6/650	7/752	8/855
Litres per regeneration:		2,207	1,103	736	552	441	368	315	276

Solo, Ultra, Duo, DuoLFT & HW65DNE

Salt use per regen 0.45 Kg	Salt storage 2x4kg blocks	Meter Disc No / Hardness in ppm							Use Premio etc
		1/115	2/227	3/336	4/441	5/544	6/600		
Litres per regeneration:		1,479	740	493	370	296	247	-----	

Operating Profile

Softener shall remove hardness to less than 8 ppm when operated in accordance with the operating instructions. The system shall include two tanks. This duplex configuration shall operate as below

Solo / Ultra / Duo / DuoLFT – alternating with one tank on-line and one tank on standby during service

Premio / DuoPlus / DuoPlusLFT – parallel service for optimum flow

During regeneration cycles, one tank shall provide water to service and to the regenerating tank. Water driven meter shall initiate system regeneration. The water meter shall measure the processed volume and be adjustable. Service flow shall be up-flow and regeneration flow shall be down-flow.

LFT models incorporate a bellow system prior to the turbine that opens and closes as determined by the speed of water flow to direct water onto the turbine blade to ensure trickle flow is accommodated.

Regeneration Control Valve

The regeneration control valve shall be top mounted (top of media tank), and manufactured from non-corrosive materials. Control valve shall not weigh more than 1.81 Kg. Control valve shall provide service and regeneration control for two media tanks. Inlet and outlet ports shall accept a quick connect, double O-ring sealed adapter. Interconnection between tanks shall be made through the regeneration valve with a quick connect adapter. Control valve shall operate using a minimum inlet pressure of 1.03 bar. Pressure shall be used to drive all valve functions. No electric supply is required. Control valve shall incorporate four operational cycles including; service, brine draw, slow rinse, and a combined fast rinse and brine refill. Service cycle shall operate in an up-flow direction. The brine cycle shall flow down-flow, opposite the service flow, providing a countercurrent regeneration. Control valve shall contain a fixed orifice eductor nozzle and self-adjusting backwash flow control. The control valve will prevent the by-pass of hard water to service during the regeneration cycle.

Media Tanks

The tanks shall be designed for a maximum working pressure of 8.6 bar and hydrostatically tested at 20.6 bar. Tanks shall be made of engineered plastic with a 63.5 mm threaded top opening. Each tank shall be NSF approved. Upper distribution system shall be of a slot design. Lower distribution system shall be of a flat plate design. Distributors will provide even flow of regeneration water and the collection of processed water.

Conditioning Media

Each softener shall include cation resin having a minimum exchange capacity of 13,080 g/L when regenerated with 0.24 Kg/L. The media shall be solid, of a proper particle size and shall contain no plates, shells, agglomerates or other shapes, which might interfere with the normal function of the water softener.

Brine System

A combination salt storage and brine production tank shall be manufactured of corrosion resistant, plastic. The brine tank shall have a chamber to house the brine valve assembly. The brine float assembly shall allow for adjustable salt settings and shall provide for a shutoff to the brine refill. The brine tank shall include a safety overflow connection to be plumbed to a suitable drain. All models operate a live brine system allowing for continuous soft water availability.

Revision Date: March 2019