

PWG MULTIVALVE

High Pressure Softeners



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Your softener that
resists high pressure.



PWG MULTIVALVE

Softening of water is the removal of Calcium, Magnesium and other cations by use of cation-exchange resins. The resulting water gives an extension of the lifetime of the pipework and installations further in line. The units have been designed to work up to a pressure of 16bar.

We deliver a complete plug and play unit, easily adaptable on request. Installation of a simplex softening unit requires a periodic regeneration of the resins based on brine, other chemicals are not required.

Regeneration is initiated automatically on volumetric control.



Tank & distributors: galvanized steel vessel with threaded side and bottom opening; assembled with upper and lower distribution system for a uniform water dispersion. A manhole and opening for filling and inspection are included.

Pallas controller: the Pallas 2030 Controller is a control unit for softening, allowing automatic monitoring and control. A pulse water meter serves as input signal.

Valves: High quality ball valves for service and regeneration. Additional manual ball valves are installed on the in- and outlet for easy disconnection of the net during maintenance. All control valves are pneumatic and require compressed air (4-6 bar, 6mm connection). A small oil free compressor is foreseen with the unit.

Operating specifications: electrical supply of 230-24 VAC – estimated power consumption of 25 VA.

Inlet specifications: water pressure between 2,5 and 16 bar – operating temperature between 7° and 30°C.

Panoply: full assembly of the components in galvanized steel (high pressure) and PVC-U (low pressure) with easy mounting 3-pcs unions. The piping is mounted on a stainless steel support frame.

Filter media: a support layer (1,7 – 2,5 mm) protects the distribution system and improves the water distribution over the full surface of the vessel. The monodisperse cation exchange resin is food grade certified, has a high capacity and a good physical, chemical and thermal stability.



TECHNICAL DATA SOFT HP MV S500 - S800

	Soft HP MV S500		Soft HP MV S600		Soft HP MV S800	
Reference code	4307055121		4307055122		4307055123	
Tech. spec's / vessel						
Tank diameter	mm	500	600	800		
Total tank height	mm	1930-2000	2070-2100	2240-2270		
Volume – total	L	320	500	900		
Volume – dome	L	20	40	75		
Filter media						
Resins Bags of 25L	L	250	375	675		
Support layer (1,7-2,5 mm) Bags of 25kg	kg	50	50	150		
Flow rates						
Qmin @ 8 BV	m³/h	2,0	3,0	5,4		
Qmax @ 40 BV	m³/h	10,0	15,0	27,0		
Exchange capacities						
°F.m³		1.375	2.062	3.712		
dH.m³		772	1.158	2.085		
kg CaCO3		14	20	37		
Regeneration						
Brine consumption	L	125	187,5	337,5		
Salt consumption	kg	38	57	103		
Brine tank type	L	400	750	1.000		
Approx. water consumption	m³	1,58	3,17	4,69		
Connections						
IN/OUT/FAST RINSE		DN40	DN50	DN65		
BACK WASH/DRAIN		DN20	DN25	DN32		
BRINE		DN16	DN20	DN25		
INJECTOR		DN20	DN25	DN25		
Dimensions Softener						
Width	mm	1.300	1.400	1.600		
Depth	mm	1.000	1.100	1.300		
Height	mm	2.500	2.600	2.770		
Estimated operating weight ¹	kg	456	990	1.448		

¹ Brine tank excluded



WHY PWG MULTIVALVE HIGH PRESSURE SOFTENER?

- **Proven Technology**

- **High incoming pressure**

- No need to reduce pressure before the softener
- No need for a buffer tank before a pressure boosting pump, with no risk of bacterial development
- No feed pump needed to go under high pressure again

- **Tank**

- Galvanized steel vessel with threaded side
- Pressure resistance up to 16 bar

- **Industrial multivalve system**

- Independent centrally programmed & controlled pneumatic (ball) valves
- Lower pressure drop in comparison with central valve systems

- **Industrial softener**

- Easy to handle Pallas controller

- **Extremely reliable**

- High quality industrial components, controlled by central panel

- **Central softening**

- One central softener for the entire building complex
- Space and money saving
- No need to put additional softener in other building areas
- Reduce bacterial development compare to decentral softening



HORECA

Central softening of cold & hot water, kitchen, laundry, boilers, ...



BUILDING

Boilers & cooling towers.



INDUSTRY

Pre-treatment reverse osmosis, steam boilers, process, cooling towers, food & beverage.



MEDICAL

Central softening cold & water, boilers, pre-treatment reverse osmosis, kitchen, laundry.