Why Soften?

Benefits of Water Treatment...

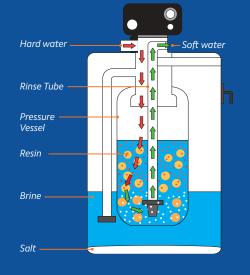
The increased levels of calcium and magnesium found in hard water will lead to premature scaling if left untreated. Problems such as early and increased replacement of heating elements, pipework and valves can often be costly and unpredictable but this can be reduced by installing a softener or conditioning system.



The Softening Process

Softening is the process of removing dissolved calcium and magnesium salts that cause hardness in water. It is achieved either by adding chemicals that form insoluble precipitates or by ion exchange. Ion exchange is accomplished by passing the water through columns of a natural or synthetic resin that trades sodium ions for calcium and magnesium ions.

Ion-exchange columns must eventually be regenerated by washing with a brine solution.



System Protection and Regeneration

Pre-Filtration

Housing

Part

Number

SWS-0.5M

SWS-2.2M

SWS-5.0M

SWS-12.5M

PWS-2.5M

PWS-5.0M

PWS-12.5M

In order to help prolong the life of the internal components of a softener, in particular the valve, pre-filtration is highly recommended. This will help to maintain maximum system efficiency and remove unwanted particulate from water.

SPECTRUM housing systems are

supplied as a kit which include; a wall mounting bracket, gauges

and a bowl removal tool.

Pressure Gauges

Bracket

Housing Head

PSP

Polypropylene depth filters offer excellent protection against particulate ingress in a mains water application.

Cartridge - 5µm

Spanner

Housing Bowl

Hydrosoft Salt

This delivers consistent brining for easy and long term use.

The Regeneration Cycle

The regeneration cycle is important to ensure running costs are kept in line. At some point, resin beads will become saturated, preventing the production of soft water. To ensure process continuity, two options are available: either change the resin or regenerate it through a brine solution. The latter option is not only easier to perform but is also much more cost effective. The SWS and PWS systems use a regeneration cycle to regenerate the resin, a process which is triggered and controlled by the valve.

Recommended

Housing

EFHS-PK-10-3/4

EFH-PK-1-20LD-1

SFH-SPC-3-10-2-GP-ML

SFH-SPC-3-20-2-GP-ML

EFH-PK-1-20LD-1

SFH-SPC-3-10-2-GP-ML

SFH-SPC-3-20-2-GP-ML

Pre-Filter

PSP-5-93/4

PSP-5-20LD

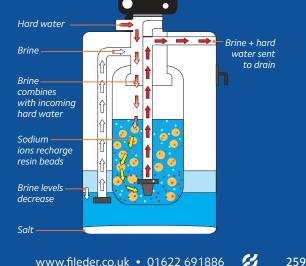
PSP-5-93/4

PSP-5-20

PSP-5-20LD

PSP-5-93/4

PSP-5-20



Which System Fits Your Needs?

Let us help you decide

	EWS Cartridge	SWS Cabinet	SWS Simplex	PWS Duplex	
Water Flow (Ipm)					
up to 15	~				
up to 45					
up to 57		~			
up to 116			 Image: A second s	~	
Water Usage (lpd)					
up to 5,000		 Image: A second s			
up to 12,500					
up to 21,000	 Image: A second s				
up to 50,000				 Image: A second s	
Contaminants					
Hardness	 Image: A second s	 Image: A second s	~	~	
Heavy Metals					
At a Glance					
Point-of-use applications	~	~			
Continuous 24h treated water					
Silent running valve (<30db)		 Image: A second s			
Fully integrated user interface		A 10 and 10 a			
Wall mountable	~				
Blending valve		 Image: A second s	•		
Organics & colour treatment					
Integral pre-filtration	×				
No regeneration downtime	~			 Image: A second s	

High Demand Scale Control



Provides complete control over

treated

water quality

SPECTRUM Valve

SPECTRUN

 $\mathbf{R} \land \mathbf{V} \triangleright$

SWS Simplex Systems Up to 116 litres per minute

The SWS Simplex range is ideal for those industrial soft water applications with higher flow and capacity demands. The units incorporate the industry accepted SPECTRUM 7 valve which gives complete volumetric and chronometric control over the regeneration. The valve also offers a blending capability which provides control over the product water quality. These units are ideally suited for applications where the product water is stored in a tank or the demand for softened water is intermittent, to allow for regeneration.

Compliant cicle 4, Paragraph Group 2 Liquids

WRAS

CE

Key Features

- Customisable electronic valve providing total control over capacity and regeneration
- Volumetric control measures the volume of soft water produced which optimises salt usage
- Supplied with easy-fill brine tank



SWS-5.0M 1 ¹⁄₄" Ports



Electrical Requirements 110-240V 50/60Hz

Operating Temperature Range 2 - 42°C **Operating Pressure Range** 2 - 8 bar

Softening Resin SPECTRUM SRSO

SWS-5.0M includes 100L / SWS-12.5M includes 250L

Salt (hydrosoft) available to order separately



SWS-12.5M 1 ¹⁄₄" Ports

LCD Display Clearly showing operational information Flexibility Immediate or delayed regeneration options

Part Number

Part Number	Optimal Flow Rate (Ipm)	Resin Vessel Size	Total Hardness Capacity (mg)	Water Used Per Regen (L) *	Hardness (ppm)	Litres of Water Used Per Day (lpd)					
						500	1000	2000	4000	5000	D
SWS-5.0M 66		56 14" x 65"	5,000,000	434	100	8	4	2	1		ays B
	66				200	4	2	1			Setv
					300	2	1				/eer
SWS-12.5M	116	21" x 62"	12,500,000	790	100	20	10	5	2	2	Re
					200	10	5	2	1	1	Regen
					300	6	3	1			

 * Based on 4 bar feed pressure 15°C feed temperature and optimal service flow rate