

# Duplex Water Softener

Flow Range up to 50 GPM

## Description

Water softener filters are used to remove the hard water minerals responsible for scaling in humidifiers and other water appliances. This type of filtration greatly prolongs the life of the reverse osmosis membranes since salts are very soluble and easy to wash away. The reinforced composite reservoir is filled from the top with resin beads to perform the exchange of ions. Water is circulated through the media by an automatic programmable head that takes care of filtering and backwash regeneration. After saturating the media with carbonates, the regeneration cycle washes away the scaling minerals with brine taken from the salt reserve. The best-in class control head can be programmed with several modes for the regeneration schedule and be equipped with a flow meter to monitor water consumption. The head is plugged on a 120VAC typical circuit and features a backup coin cell for up to 8h of operation. Twin softeners are equipped with two tanks to provide continuous treatment. The control head monitors the resin capacity and will start the regeneration cycle on one of the tanks, while the other takes over the softening process, insuring continuous supply.



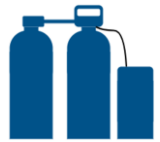
## Model Specifications

Part Number	Nominal Size [cu.ft]	Media Volume [cu.ft]	Tank Dimensions Dia. x H [in]	Flow Rate* [GPM]
WS DWS01	1	1	10 x 44	5
WS DWS02	2	2	12 x 52	10
WS DWS03	3	3	14 x 65	15
WS DWS04	4	4	16 x 65	20
WS DWS06	6	6	21 x 62	30
WS DWS08	8	8	24 x 72	40
WS DWS10	10	10	24 x 72	50

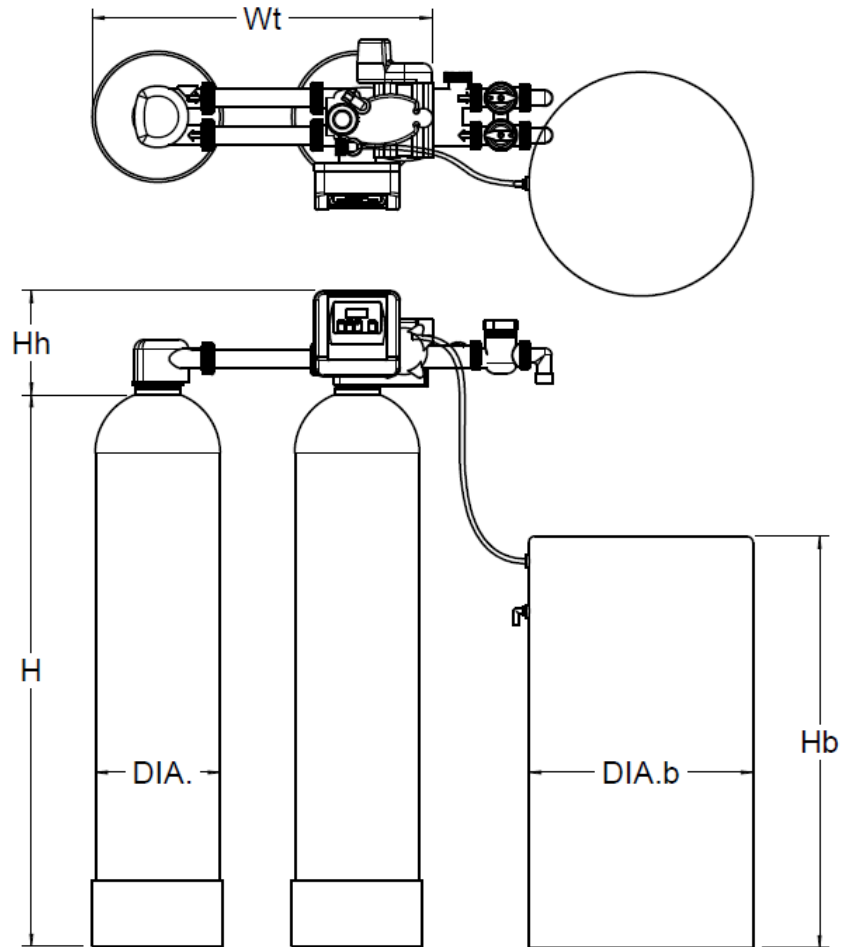
\*Flow rates are based on a concentration of 12gr/GAL of hardness.

## General Technical Specifications

Description	
Material	Tank: Fiberglass reinforced Composite Media: Cation Resin Brine Tank: Polymer
Operating pressure (Min/Max)	25psi – 125psi
Operating temperature (Min/Max)	40°F (5°C) – 100°F (38°C)
Voltage and Power	120VAC/60Hz – 10W



## Dimensions



Part Number	Softener							Brine Tank		
	DIA. [in]	H [in]	Hh [in]	Wt [in]	Dry Weight [lb]	Service Weight [lb]	Port Size	DIA.b [in]	Hb [in]	Service Weight [lb]
WS DWS01	10	44	7.5	23	265	327	1"NPT	18	40	340
WS DWS02	12	52	7.5	27	340	464	1"NPT	18	40	340
WS DWS03	14	65	7.5	31	610	796	1"NPT	24	42	620
WS DWS04	16	65	7.5	35	705	953	1"NPT	24	42	620
WS DWS06	21	62	10.75	45	1185	1557	1.5"NPT	30	48	1100
WS DWS08	24	72	10.75	51	1600	2220	1.5"NPT	39	48	1850
WS DWS10	24	72	10.75	51	1760	2380	1.5"NPT	39	48	1850

## Accessories

Part Number	Description
WS SCR1	Softener Cation Resin Replacement Media, 1 bag of 1cuft
WS SS1	Water Softener Salt Crystal, 1 bag of 0.5cuft, to reload the brine tank.

# Cartridge Water Softener

*Flow Range up to 4GPM*

## Description

Cartridges are used to convert the hardness minerals to an inactive crystal form. While not filtering them out of the feed water, the different shape of the mineral reduces the ability to stick to membrane. This type of filtration greatly prolongs the life of the reverse osmosis membranes.

Smaller RO systems can be equipped with cartridge-based filtration, with no control, refill or maintenance required during the life span of the filter. Filters cartridges are replaced every year. This offers a more compact water pre-treatment setup than a duplex tank, with quicker and easier maintenance of the filters.



## Model Specifications

Part Number	Nom. Diameter	Nom. Length	Max Flow Rate [GPM]	Life Span [Months]	Ports Size	Replacement Cartridge
WF SCF25-20	2.5in	20in	1	12	3/4 FNPT	WS SCR25-20
WF SCF45-10	4in	10in	2		1 FNPT	WS SCR45-10
WF SCF45-20	4in	20in	4		1 FNPT	WS SCR45-20

## General Technical Specifications

Description	Min	Max
Pressure	25psi	90psi
Temperature	40°F (5°C)	100°F (38°C)
Filtration Pore Size	10 µm	-
Hardness (CaCO3)	-	500ppm 30grain/gal.
TDS	-	1500ppm
PH	6.5	8.5