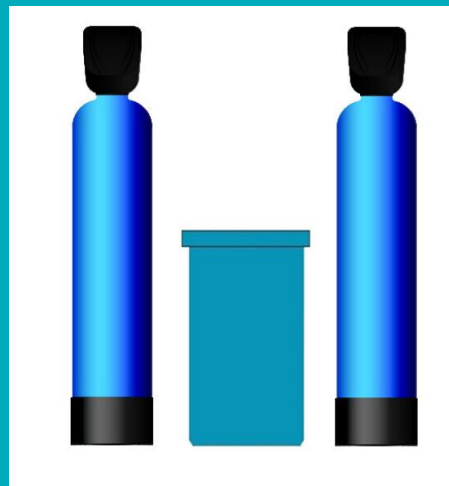
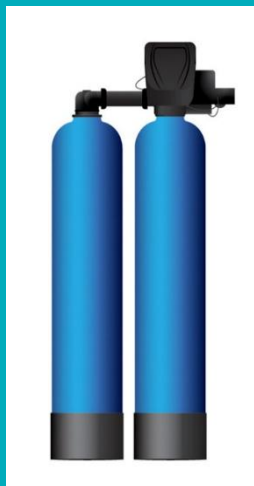


# COMMERCIAL SOFTENERS

## DUPLEX SOFTENERS

**Our Duplex softeners (DS models) are designed to supply softened water in situations where a continuous and uninterrupted supply of softened water is required. These systems have two softening vessels and one brine tank. One vessel provides soft water whilst the other is on standby. When the supplying vessel becomes exhausted, it automatically switches to a regeneration, with softener water coming from the previous stand by vessel. When the regeneration is finished, it goes onto standby ready to take over from the vessel currently in the supply mode.**

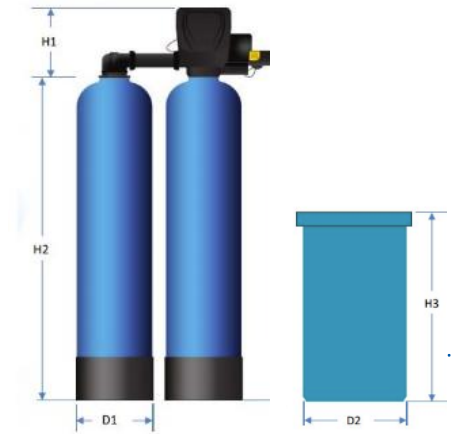
**There will always be one tank in service while the other tank is either running a regeneration cycle or on standby, thereby guaranteeing 24/7 soft water production.**



# COMMERCIAL SOFTENERS

Duplex Water Softeners

(TT Models – one valve)



Model	Resin	H1	H2	H3	D1	D2	Kg*	Width	Depth	Height
DS10/817	2x10L	187	432	450	215	320sq	37	826	351	619
DS20/835	2x20L	187	891	450	215	320sq	61	826	351	1078
DS30/1035	2x30L	187	891	914	268	365x430	85	989	365	1078
DS40/1044	2x40L	187	1118	914	268	365x430	110	989	365	1305
DS50/1054	2x50L	187	1378	914	268	365x430	135	989	365	1565
DS60/1248	2x60L	187	1230	830	315	670	158	1276	670	1417
DS75/1354	2x75L	187	1384	980	315	760	200	1390	760	1571
DS100/1465	2x100L	187	1683	920	370	880	270	1620	880	1870
DS125/1465	2x125L	187	1683	920	370	880	320	1620	880	1870
DS150/1665	2x150L	187	1675	1150	406	880	385	1692	880	1862
DS200/1865	2x200L	187	1770	1150	510	880	490	1900	880	1957

\*Weight does not include water.

Width, Depth and Height refer to the footprint of the system if all items are in line.

## General conditions for installation:

Specifications	
Connection Inlet & Outlet	1" BSPM
Drain Connection	3/4" BSPM or 3/4" Barbed
Electrical Rating	230V 50Hz 12V Transformer
Power Rating	6 Watt
Min. Pressure	200 kPa (2 Bar)
Max. Pressure	700 kPa (7 Bar)
Vacuum	Not Permitted
Average Pressure Loss	100 kPa (1 Bar) under normal circumstances
Min. - Max. Temp.	5-35°C

# COMMERCIAL SOFTENERS

1" and 1.25" Duplex Water Softeners

(TT Models – one valve)



## Duplex WS1TT METERED softener, 1" (One TT valve)

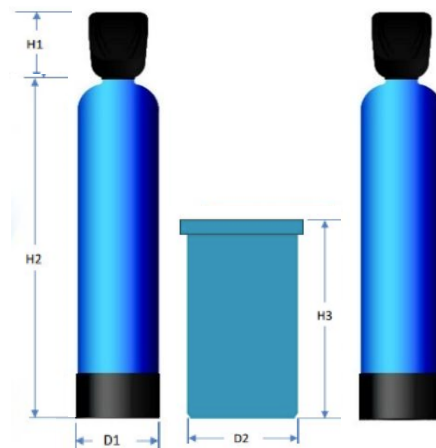
Inlet/outlet 1", drain 3/4", max valve flow 6.8 m<sup>3</sup>/hr, pressure 1.5 to 8 bar, Valve WS1 TT. Salt Kg denotes use per regen

Model	Valve	Salt kg	Size	Rec flow rate	Resin	Cap@300ppm
DS10/817	WS1TTCI	1.5	8" x 17"	0.4 m <sup>3</sup> /hr	2x10L	1.6 m3
DS20/835	WS1TTCI	3	8" x 35"	0.8 m <sup>3</sup> /hr	2x20L	3.3 m3
DS30/1035	WS1TTCI	4.5	10" x 35"	1.2 m <sup>3</sup> /hr	2x30L	4.9 m3
DS40/1044	WS1TTCI	6	10" x 44"	1.6 m <sup>3</sup> /hr	2x40L	6.6 m3
DS50/1054	WS1TTCI	7.5	10" x 54"	2 m <sup>3</sup> /hr	2x50L	8.3 m3
DS60/1248	WS1TTCI	9	12" x 48"	2.4 m <sup>3</sup> /hr	2x60L	9.9 m3
DS75/1354	WS1TTCI	11.25	13" x 54"	3 m <sup>3</sup> /hr	2x75L	12.4 m3
DS100/1465	WS1TTCI	15	14" x 65"	4 m <sup>3</sup> /hr	2x100L	16.6 m3
DS125/1465	WS1TTCI	18.75	14" x 65"	5 m <sup>3</sup> /hr	2x125L	20.7 m3
DS150/1665	WS1TTCI	22.5	16" x 65"	6 m <sup>3</sup> /hr	2x150L	24.9 m3
DS200/1865	WS1TTCI	30	18" x 65"	6.3 m <sup>3</sup> /hr	2x200L	33.2 m3
DS250/2169	WS1TT	37.5	21" x 69"	6.6 m <sup>3</sup> /hr	2x250L	41.5 m3
DS350/2469	WS1TT	52.5	24" x 69"	6.8 m <sup>3</sup> /hr	2x350L	58.1 m3

# COMMERCIAL SOFTENERS

## Duplex Water Softeners

(Two valves)



### All measurements in mm.

Model	Resin	H1	H2	H3	D1	D2	Kg	Width	Depth	Height*
DS10/817	2x10L	619	485	450	215	320sq	40	750	320	619
DS20/835	2x20L	1078	944	840	215	320sq	65	750	320	1078
DS30/1035	2x30L	1078	944	840	268	365x430	85	901	430	1078
DS40/1044	2x40L	1305	1171	840	268	365x430	110	901	430	1305
DS50/1054	2x50L	1565	1431	840	267	365x430	125	901	430	1565
DS60/1248	2x60L	1417	1283	830	315	370	155	1000	370	1417
DS75/1354	2x75L	1571	1437	980	349	760	190	1458	760	1571
DS100/1465	2x100L	1870	1736	920	370	880	270	1620	760	1870
DS150/1665	2x150L	1862	1713	1150	406	880	375	1187	880	1862
DS200/1865	2x200L	1957	1823	1150	510	880	485	1900	880	1957
DS250/2160	2x250L	1842	1708	1080	552	1000	600	2104	1000	1842
DS350/2469	2x350L	2092	1958	1080	610	1000	800	2220	1000	2092

\*Weight does not include water.

Width, Depth and Height refer to the footprint of the system if all items are in line.

### General conditions for installation

Specifications	
Min. Pressure	200 kPa (2 Bar)
Max. Pressure	700 kPa (7 Bar)
Vacuum	Not Permitted
Average Pressure Loss	100 kPa (1 Bar) under normal circumstances
Min. - Max. Temp.	5-35°C

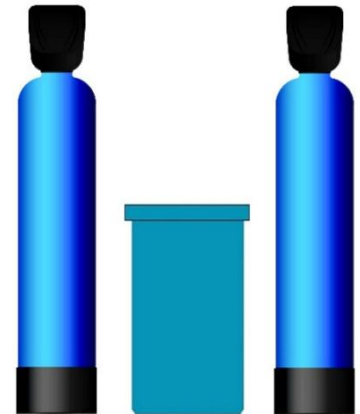
### Measurement adjustments by valve

Vessel	*
<b>Clack 1"</b>	Same
<b>Clack 1.25"</b>	Same
<b>Clack 1.5" P</b>	+87 mm
<b>Clack 1.5"</b>	+30 mm
<b>Clack 2"</b>	+60 mm

# COMMERCIAL SOFTENERS

1.5" and 2" Valves Duplex Water Softeners

(Two valves)



## Duplex WS1.5TT Metered softener, 1.5" (One TT valve)

Inlet/outlet 1.5", drain 1", max flow 12 m<sup>3</sup>/hr, BW4.9m<sup>3</sup>/hr, Pressure 1.5-8 bar. Salt Kg denotes use per regen

Model	Valve	Salt kg	Size	Flow rate	Resin	Cap@300ppm
DS125/1465	WS1.5TT	18	14" x 65"	5 m <sup>3</sup> /hr	2x125L	20.7 m <sup>3</sup>
DS150/1665	WS1.5TT	22	16" x 65"	6 m <sup>3</sup> /hr	2x150L	24.9 m <sup>3</sup>
DS200/1865	WS1.5TT	30	18" x 65"	8 m <sup>3</sup> /hr	2x200L	33.2 m <sup>3</sup>
DS250/2160	WS1.5TT	37	21" x 60"	10 m <sup>3</sup> /hr	2x250L	41.5 m <sup>3</sup>
DS350/2469	WS1.5TT	52	24" x 69"	12 m <sup>3</sup> /hr	2x350L	58.1 m <sup>3</sup>

## Duplex WS2 METERED softener, 2"

Inlet/outlet 2", drain 1.5", max valve flow 26 m<sup>3</sup>/hr, pressure 1.5 to 8 bar, Valve WS2CI. Salt Kg denotes use per regen

Model	Valve	Salt kg	Size	Flow rate	Resin	Cap@300ppm
DS125/1465	WS2CI	18.75	14" x 65"	5 m <sup>3</sup> /hr	2x125L	20.7 m <sup>3</sup>
DS150/1665	WS2CI	22.5	16" x 65"	6 m <sup>3</sup> /hr	2x150L	24.9 m <sup>3</sup>
DS200/1865	WS2CI	30	18" x 65"	8 m <sup>3</sup> /hr	2x200L	33.2 m <sup>3</sup>
DS250/2160	WS2CI	37.5	21" x 60"	10 m <sup>3</sup> /hr	2x250L	41.5 m <sup>3</sup>
DS350/2469	WS2CI	52.5	24" x 69"	14 m <sup>3</sup> /hr	2x350L	58.1 m <sup>3</sup>
DS500/3072	WS2CI	75	30" x 72"	20 m <sup>3</sup> /hr	2x500L	83 m <sup>3</sup>
DS700/3572	WS2CI	105	36" x 72"	26 m <sup>3</sup> /hr	2x700L	124.5 m <sup>3</sup>
WWDS10440000356	WS2CI		Duplex 2" interconnect pipe kit			

Important:  
Valve reference must be quoted with Model No