

SpringTech™ SERIES



Vortech™



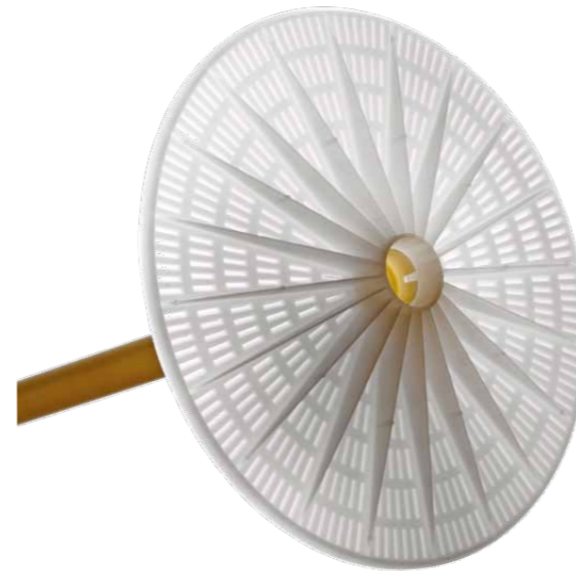
FEATURES

- Flexibility in picking sizes and components
- Vortech™ bottom distribution system for a cleaner and more efficient system with less backwash
- Additional Mid-Vortech™ option as a mid plate distributor eliminates the need of a second media tank
- No leakage (special injection process and mechanical welding of the glass-filled threaded inlet to the dome eliminate leaking)
- Unique 3-piece-design allows access to inside of tank during construction
- Superior impact resistance, consistent and strong quality
- Superior elasticity of co-polymer polypropylene used allows for controlled “breathing” without stressing the material
- CE, NSF, ACS, approved
- Comprehensive testing

Global Water Solutions now introduces the SpringTech™ series, a series of exclusive quality composite vessels for water treatment systems featuring the revolutionary Vortech™ technology which ensures purest water quality. The patented Vortech™ is the world’s newest, innovative and most efficient bottom distribution system. Cleaning is greatly improved, freeboard is reduced, and it works with all softening and filtrating medias. The SpringTech™ series with the unique Vortech™ technology provides a cleaner and more efficient system. Advanced computerized manufacturing processes and finest materials used make the SpringTech™ series composite vessels for water treatment systems stronger and superior to the competitor’s vessels.

VORTECH™ -The Revolutionary New Distribution Technology

FEATURES & BENEFITS



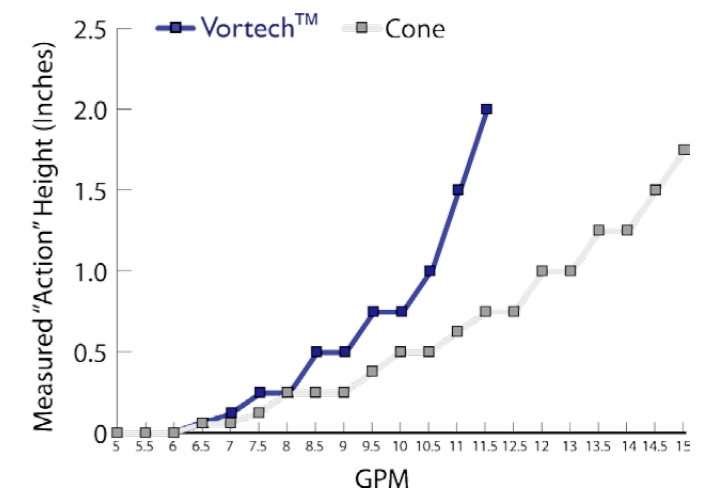
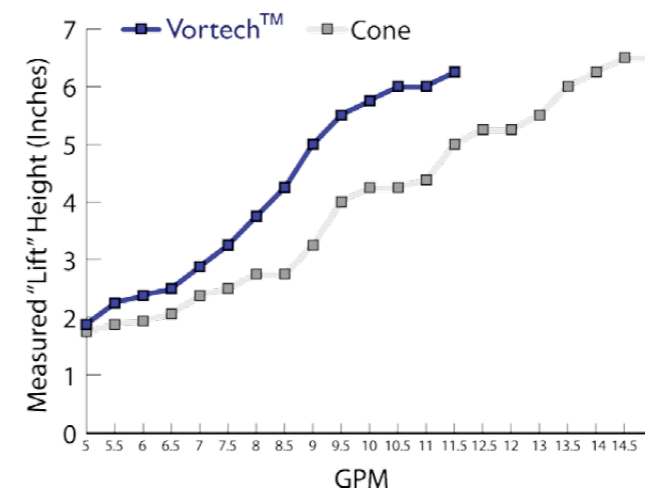
- Up to 30% less backwash flow rate is required, conserving water for the consumer
- High flow design maximizes today’s high efficiency valve technology
- Permanent attachment of dip tube to distributor, so when servicing a valve, distributor stays in place, no more re-bedding
- Elimination of gravel, saves net costs and unit weight for shipping
- Improved system pressure drop characteristics
- Self-cleaning nozzle design eliminates potential clogging and build-up
- Increase in softening capacity, due to improved flow through media
- No channeling of media, providing a cleaner more efficient system
- Environmentally friendly, reduction in required backwash times due to improved bed lift and mixing at lower flow rates
- Most efficient softening regeneration, reducing salt consumption

Third Party Validation*

	Capacity Test @ 4.5 lbs of salt**	Gallons to drain**	Pressures / Δ p	Backwash time***	Pressure drop***
Cone & gravel	3472 grains	53.7	13.4 gpm @ 15psig Δ p	14 minutes	25 psi
Vortech™	4186 grains	31	@15psig Δ p, Flow rate 17.8 gpm	8 minutes	10 psi
Improvement	Increase of 21%	Decrease of 42%	Increase of 33% in flow rate	Saving up to 150 gal water/ cycle	Decrease of 60%

*Detailed test results available upon request **ST1040 ***ST1665

Backwash Comparison (Vortech™ vs. Cone)



Carbon 13" Diameter, Temperature 42°F, Quantity of Media 2.5 ft³, Weight of Underbedding - Cone 45 lbs

SPECIFICATIONS SpringTech™ Series Models

Model #'s	Weight per Tank		Pieces per Box	Shipping Volume per Box		Shipping Weight per Box		Dimensions				
	Old Part Number	kgs		lbs	m ³	ft ³	kgs	lbs	A		B	
								cm	inches	cm	inches	
ST724		2.7	6	24	1.26	44.67	97.1	214			61	24
ST735		3.2	7	24	1.17	41.47	108	238	17.8	7	88.9	35
ST744		3.6	8	24	1.26	44.67	118.8	262			111.8	44
ST818		1.8	4	28	1.17	41.47	82.6	182			45.7	18
ST824		2.2	4.8	32	1.17	41.47	100.7	222			61	24
ST830		2.4	5.3	18	1.26	44.67	74.6	165			76.2	30
ST835		2.7	6	18	1.17	41.47	80.7	178	20.3	8	88.9	35
ST840		3.1	6.8	18	1.26	44.67	86.9	192			101.6	40
ST844		3.3	7.3	18	1.26	44.67	90.9	201			111.8	44
ST918		2.4	5.2	28	1.17	41.47	97.8	216			45.7	18
ST935		4.2	9.3	18	1.17	41.47	107.7	237			88.9	35
ST940		5.4	12	14	1.26	44.67	108	238	22.9	9	101.6	40
ST942		5.4	12	16	1.48	52.14	118.8	262			106.7	42
ST948		6.4	14	16	1.48	52.14	133.4	294			121.9	48
ST1018**		4.3	9.5	48	1.73	61.05	238.6	526			45.7	18
ST1022**		4.5	10	32	1.17	41.47	176.9	390			55.9	22
ST1024**		5	11	32	1.48	52.14	191.4	422			61	24
ST1030**		5.7	12.5	12	1.17	41.47	99.8	220			76.2	30
ST1035**		6.4	14	12	1.17	41.47	108	238			88.9	35
ST1040**		6.8	15	12	1.26	44.67	113.4	250	25.4	10	101.6	40
ST1044**		7.1	15.8	12	1.26	44.67	117.5	259			111.8	44
ST1047**		7.4	16.3	14	1.48	52.14	134.9	298			119.4	47
ST1054**		7.9	17.5	16	1.73	61.05	158.8	350			137.2	54
ST1060**		8.5	18.8	1	0.12	4.41	40.3	89			152.4	60
ST1065**		9.1	20	1	0.13	4.76	40.8	90			165.1	65
ST1229		5.4	12	9	1.17	41.47	80.7	178			73.7	29
ST1236		6.1	13.5	9	1.26	44.67	86.9	192			91.4	36
ST1242		6.8	15	9	1.26	44.67	93	205	30.5	12	106.7	42
ST1244		7.1	15.8	9	1.26	44.67	96	212			111.8	44
ST1248		7.6	16.8	9	1.48	52.14	100.1	221			121.9	48
ST1252		8.6	19	9	1.73	61.05	109.3	241			132.1	52
ST1330**		7.3	16	12	1.17	41.47	118.8	262			76.2	30
ST1335**		7.7	17	12	1.17	41.47	124.3	274			88.9	35
ST1348**		8.6	19	9	1.48	52.14	109.3	241	33	13	121.9	48
ST1354**		9.5	21	9	1.73	61.05	117.5	259			137.2	54
ST1360**		10.4	23	1	0.2	7.02	42.2	93			152.4	60
ST1365**		11.3	25	1	0.21	7.48	43.1	95			165.1	65
ST1430*		7.7	17	10	1.17	41.47	108.9	240			76.2	30
ST1454*		13.2	29	8	1.73	61.05	137	302	35.6	14	137.2	54
ST1465*		15.9	35	1	0.25	8.71	47.6	105			165.1	65
ST1472*		17.7	39	1	0.25	8.71	49.4	109			182.9	72
ST1623*		8.2	18	1	0.12	4.18	39.9	88			58.4	23
ST1636*		12.7	28	1	0.18	6.35	44.5	98	40.6	16	91.4	36
ST1653*		18.6	41	1	0.26	9.19	50.3	111			134.6	53
ST1665*		22.7	50	1	0.35	12.36	54.4	120			165.1	65

Maximum operating pressure: 10 bar / 150 psi
Top Opening Connection: 2,5" NPSM

Maximum operating temperature: 50°C / 122°F

* Minor dimensional variation may occur

Dome hole option available for 10", 12" and 13" diameter vessels

*Also available in 4" UN connection

**Mid-Vortech™ mid plate distributor available for 10" and 13" diameter vessels

All tanks come with Vortech™ bottom distributor plate

VESSEL MATERIAL SPECIFICATIONS

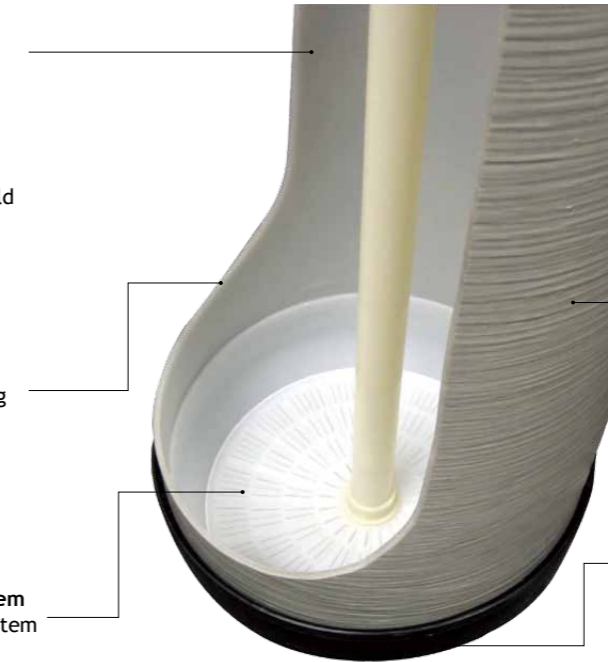
Co-Polymer Polypropylene Inner Shell Material

Superior elasticity allows for controlled "breathing" without stressing the material

Superior impact resistance and superior performance in hot and cold environments

Extruded side wall produces consistent wall thickness over the entire length of the part eliminating potential thin spots or stress points

Vortech™ bottom distribution system for a cleaner and more efficient system



High temperature/high pressure injection molding allows the glass-filled threaded inlet to be mechanically welded to the dome eliminating potential leak paths

Premium Fiberglass/Epoxy Winding (computer controlled)

Epoxy laminate is oven cured for superior environmental performance

Injection Molded Base

Injection molded from impact/temperature resistant polypropylene

ADDITIONAL FEATURES AVAILABLE UPON REQUEST

Mid-Vortech™ Option available for 10" and 13" Vessels



Exclusive internal mid plate distributor Mid-Vortech™ eliminates the need for a second media tank and valve by creating physical separation of medias within a single tank.

Reduces plumbing and packaging requirements and saves water, salt and the environment!

DI Exchange Vessels and Accessories



DI Exchange Heads



Extended Bases



ACS Approved

