



THERM-X-TROL®

Thermal Expansion Tanks: Diaphragm ST-C Series ASME

150 PSIG Working Pressure

Construction

Shell	ST-5C through ST-42VC: Deep Drawn Steel ST-60VC through ST-210VC: Steel Head & Shell
Diaphragm	Heavy Duty Butyl NSF/ANSI 61
Liner	Antimicrobial Polypropylene w/Anti-Legionella Protection
System Connection	Stainless Steel
Finish	Red Oxide Primer
Water Circulator	Turbulator® (Deep Drawn Models)
Air Valve	Schrader Valve w/ EPDM Seat
Factory Precharge	55 PSIG (3.8 bar)

Performance

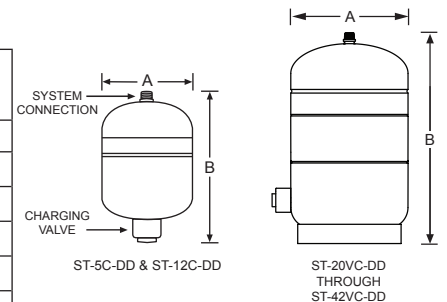
Maximum Operating Temperature	200°F (93°C)
Maximum Working Pressure	150 PSIG (10.3 bar)
Warranty	3-Years

Application

- For use in closed, domestic hot water systems to control pressure buildup.
- Fixed diaphragm construction.
- Designed and constructed per ASME Code Section VIII, Division 1.
- Tested to JIS Z 2801 for reduction of Legionella, Staphylococcus and E. coli.
- Follows ASHRAE 188 Anti-Legionella guidelines.
- All models available with optional sight glass.
- Seismic restraints available on stand models only.
- Deep drawn models are lighter, stronger and more compact than traditional head and shell construction.

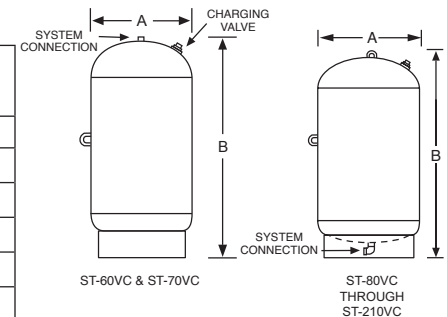
Deep Drawn In-Line & Stand Models

Model Number	Tank Volume		Max. Accept. Factor	A Tank Diameter		B Tank Height		System Conn. (NPTM)	Shipping Weight	
	Gal	Lit		In	mm	In	mm		Lbs	Kg
ST-5C-DD	2.0	8	.45	8	203	14	356	3/4	10	5
ST-12C-DD	6.4	24	.50	12	305	18	457	3/4	26	12
ST-20VC-DD	8.6	33	.37	12	305	22	559	3/4	36	16
ST-30VC-DD	16.5	63	.68	15	381	25	636	3/4	48	22
ST-42VC-DD	23.0	88	.49	15	381	33	838	3/4	68	31



Head & Shell Stand Models

Model Number	Tank Volume		Max. Accept. Factor	A Tank Diameter		B Tank Height		System Conn. (NPTF)	Shipping Weight	
	Gal	Lit		In	mm	In	mm		Lbs	Kg
ST-60VC	25.0	95	.44	16	406	32	813	3/4	85	39
ST-70VC	34.0	129	.32	16	406	45	1143	3/4	99	45
ST-80VC	53.0	201	.66	24	610	37	940	1 1/4	224	102
ST-120VC	68.0	257	.51	24	610	44	1118	1 1/4	266	121
ST-180VC	77.0	291	.45	24	610	49	1245	1 1/4	285	129
ST-210VC	90.0	341	.39	24	610	57	1448	1 1/4	319	145



All dimensions and weights are approximate.

Job Name _____	Notes _____
Engineer _____	_____
Contractor _____	_____
P.O. No. _____	_____
Sales Rep. _____	_____
Model No. _____	_____

188
AntiLegionella. Antimicrobial.



Certified to NSF/ANSI CAN 61



Turbulator
DEEP DRAWN
MODELS

