globalwater solutions ltd.

WATER IS LIFE

Pump Applications

Maintenance-free pressure tanks for pump applications available in sizes ranging from 2 to 450 liters / 0.5 to 120 gallon.

Find out more

ABA GROUP

PressureWave™ SERIES

FEATURES

- Single diaphragm design
- CE/PED, WRAS, ACS, ISO:9001 approved
- Patented stainless steel water connection
- Virgin polypropylene liner
- Two part polyurethane, epoxy primed paint finish
- Leak free, o-ring sealed air valve cap
- Comprehensive testing
- No maintenance

PressureWave™ tanks are ideally suited for a wide range of applications, including booster systems, thermal expansion, irrigation systems, and hydraulic hammer arresting.

The PressureWave™ Series is constructed of a virgin polypropylene liner combined with an FDA approved high grade butyl diaphragm. This is held against the wall of the tank with a steel clench ring. The brass air valve, sealed by a threaded o-ring valve cap, prevents air leaks. Water enters the tank through a patented stainless steel water connection. The diaphragm and liner are both reinforced in specific wear areas for longer life. All internal parts including the air valve are rounded to prevent piercing of the diaphragm in extreme conditions. The water connection uniquely provides a dual water/air seal ensuring a complete leak free and maintenance free pressure vessel.

On the exterior the almond colored two-part polyurethane paint finish over an epoxy undercoating provides hundreds of hours of UV and salt spray protection.

PressureWave™ tanks are quality tested at several stages on the production line to insure the structural integrity of every tank.

PressureWave™ tanks represent the best value for the investment and are the best quality pressure vessels available today.

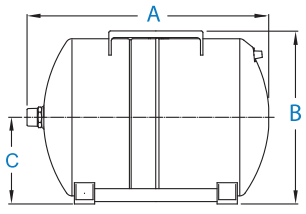
SPECIFICATIONS

PressureWave™ Series Models

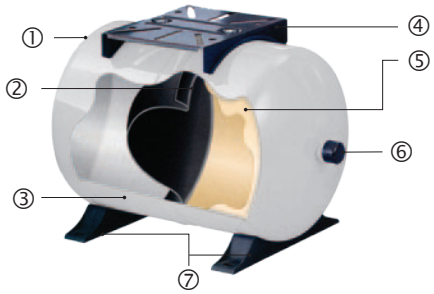
BSP	NPT	Nominal Volume		Shipping (box) Volume		Shipping (box) Weight		Dimensions					
								A		B		C	
		liter	gal	m^3	ft^3	kg	lbs	cm	inches	cm	inches	cm	inches
Inline Models													
PWB-2LX*	PWN-2LX*	2	0.5	0.06	2.12	13.60	29.98	20.90	8.23	12.60	4.96		
PWB-3LX*	PWN-3LX*	3	0.8	0.031	1.01	9.19	20,26	24.30	9.57	14.30	5.51		
PWB-4LX	PWN-4LX	4	1.1	0.01	0.35	1.74	3.84	26.10	10.28	16.20	6.38		
PWB-6LX*	PWN-6LX*	6	1.6	0.047	1.66	7.65	15.43	29.00	11.42	17.80	6.69		
PWB-8LX	PWN-8LX	8	2.1	0.014	0.49	2.47	5.45	31.56	12.32	20.20	7.95		
PWB-12LX	PWN-12LX	12	3.2	0.023	0.81	3.21	7.08	36.70	14.45	23.00	9.06		
PWB-18LX	PWN-18LX	18	4.8	0.03	1.06	4.07	8.97	36.70	14.45	27.90	10.98		
PWB-24LX	PWN-24LX	24	6.3	0.042	1.48	5.52	12.17	44.70	17.60	29.00	11.42		
PWB-35LX	PWN-35LX	35	9.3	0.056	1.98	7.28	16.05	48.10	18.90	31.80	12.52		
Horizontal Models													
PWB-8LH	PWN-8LH	8	2.1	0.013	0.46	2.46	5.42	31.30	12.32	23.20	9.13	11.60	4.57
PWB-12LH	PWN-12LH	12	3.2	0.024	0.85	3.56	7.84	36.70	14.45	26.00	10.24	13.25	5.12
PWB-20LH	PWN-20LH	20	5.3	0.04	1.41	4.99	11.00	44.70	17.60	29.20	11.57	14.50	5.79
PWB-24LH	PWN-24LH	24	6.3	0.047	1.65	6.00	13.23	44.70	17.60	32.10	12.64	16.10	6.34
PWB-35LH	PWN-35LH	35	9.3	0.061	2.15	7.80	17.20	48.10	18.94	35.30	13.90	17.90	7.05
PWB-60LH	PWN-60LH	60	15.9	0.09	3.18	11.51	25.37	53.00	20.87	42.40	16.69	21.50	8.46
PWB-80LH	PWN-80LH	80	21.1	0.13	4.59	16.22	35.76	72.60	28.58	42.40	16.69	21.50	8.46
PWB-100LH	PWN-100LH	100	26.4	0.16	5.65	19.84	43.74	72.00	28.35	47.50	18.70	24.50	9.65
Vertical Models w/ base													
PWB-35LV	PWN-35LV	35	9.3	0.063	2.22	7.70	16.98	55.50	21.85	31.80	12.52	12.00	4.72
PWB-60LV	PWN-60LV	60	15.9	0.098	3.46	11.28	24.87	62.00	24.41	38.90	15.31	12.70	5.00
PWB-80LV	PWN-80LV	80	21.1	0.13	4.59	16.24	35.80	81.50	32.09	38.90	15.31	12.70	5.00
PWB-100LV	PWN-100LV	100	26.4	0.16	5.65	19.72	43.47	80.40	31.65	43.00	16.93	12.90	5.08
PWB-130LV	PWN-130LV	130	34.3	0.21	7.42	26.65	58.75	107.40	42.28	43.00	16.93	12.90	5.08
PWB-150LV	PWN-150LV	150	40.0	0.28	9.89	34.63	76.30	93.80	36.38	53.00	20.87	13.85	5.45

Standard System Connection: 1"
All connections are stainless steel unless stated otherwise. Tank precharge: 1.9 bar / 28 psi
Maximum Working Pressure: 10 bar / 150 psi Maximum Working Temperature: 90°C / 194°F
Available in 16 and 25 bar as Max™ and UltraMax™ Series
Available in smaller sizes as HydroGuard™ Series
* PWB-2LX and PWN-2LX: 12 pcs/box, PWB-3LX and PWN-3LX: 6pcs/box, PWB-6LX and PWN-6LX: 4 pcs/box

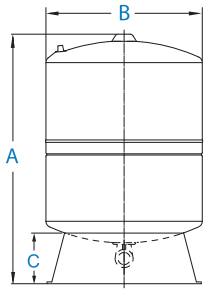
Note: Minor dimensional variation may occur



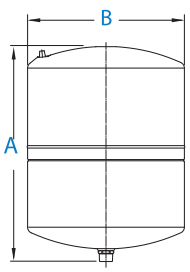
8LH - 100LH



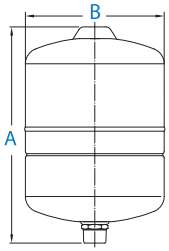
① Leak free, o-ring sealed air valve cap
② Single diaphragm design
③ Two part polyurethane, epoxy primed paint finish
④ Nylon Plastic Pump Stand
⑤ Virgin polypropylene liner
⑥ Patented stainless steel water connection
⑦ Plastic Tank Feet



35LV - 150LV



12LX, 18LX, 24LX



2LX, 3LX, 4LX, 6LX, 8LX, 35LX

CE ACS Approved WRAS APPROVED PRODUCT

Challenger™ SERIES

FEATURES

- Patented CAD-2 diaphragm technology
- CE/PED, WRAS, ACS, ISO-9001, Gost, Evrazes approved
- Stainless steel water connection
- Condensation reducing design
- Two part polyurethane, epoxy primed paint finish
- Leak free air valve cap sealed with closed cell foam
- Comprehensive testing
- No maintenance

Challenger™ tanks are ideally suited for a wide range of applications, including booster systems, thermal expansion, heating expansion, irrigation systems, and hydraulic hammer arresting.

Water Chamber, Patented Controlled Action Design:
Efficient and cost effective, Challenger™ tanks are designed with a patented controlled action CAD-2 diaphragm assembly. It features a chlorine resistant 100% butyl diaphragm with a precision molded copolymer polypropylene liner for superior air and water separation. The CAD-2 diaphragm assembly is clenched together with a positive lock internal clench ring which contains drawdown water in a pre-charged air atmosphere, thus providing separation between the diaphragm and tank wall. This “air buffer” design means few problems with condensation. Constructed with an FDA approved high grade butyl, the diaphragm assembly seals water in a true non-corrosive chamber.

On the exterior, the almond colored two part polyurethane paint finish over an epoxy undercoating provides hundreds of hours of UV and salt spray protection.

The air chamber is sealed with a fixed o-ring and closed cell foam and will provide many years of leak free and service free life. Challenger™ tanks are quality tested at several stages on the production line to insure the structural integrity of every tank. Challenger™ tanks are the best steel pressure vessels in the market today and represent the best value for the investment.

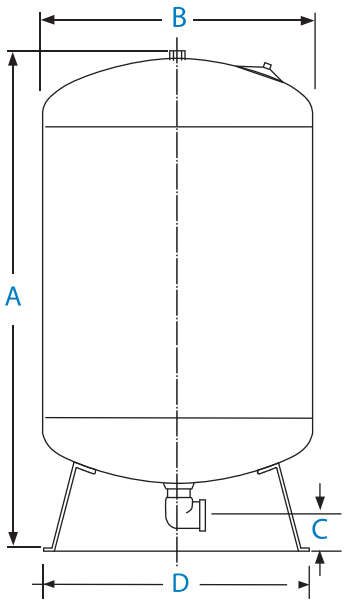
SPECIFICATIONS

Challenger™ Series Models

BSP	NPT	Nominal Volume		Shipping (box) Volume		Shipping (box) Weight		Dimensions							
								A		B		C		D	
		liter	gal	m^3	ft^3	kg	lbs	cm	inches	cm	inches	cm	inches	cm	inches
GCB-60LV	GCN-15GV	60	15	0.10	3.65	12.25	27.0	57.27	22.55	40.68	16.02	4.80	1.89	36.93	14.54
GCB-80LV	GCN-20GV	80	20	0.13	4.74	15.20	33.5	75.27	29.60	40.68	16.02	4.80	1.89	36.93	14.54
GCB-100LV	GCN-25GV	100	25	0.16	5.68	18.10	40.0	89.68	35.31	40.68	16.02	4.80	1.89	36.93	14.54
GCB-130LV	GCN-35GV	130	35	0.20	7.08	22.50	49.5	110.94	43.68	40.75	16.02	4.80	1.89	36.93	14.54
GCB-200LV	GCN-50GV	200	50	0.31	10.88	34.25	75.5	105.56	41.56	53.29	21.03	5.68	2.23	44.63	17.57
GCB-250LV	GCN-60GV	250	60	0.37	13.18	39.24	86.5	122.75	48.33	53.37	21.03	5.68	2.23	44.63	17.57
GCB-300LV	GCN-80GV	300	80	0.46	16.25	47.17	104.0	151.27	59.56	53.37	21.03	5.38	2.23	44.63	17.57
GCB-325LV	GCN-85GV	325	85	0.46	16.25	48.40	106.7	116.68	45.94	66.21	26.07	6.43	2.53	54.23	21.35
GCB-450LV	GCN-120GV	450	120	0.74	26.14	69.85	154.0	155.07	61.05	66.06	26.01	6.43	2.53	54.23	21.35

System Connection:
Models GCB-60LV - GCB-130LV: 1” BSP stainless steel elbow
Models GCB-200LV – GCB-450LV: 1 1/4” BSP stainless steel elbow
Models GCN-15GV - GCN-35GV: 1” NPT stainless steel elbow
Models GCN-50GV - GCN-133GV: 1 1/4” NPT stainless steel elbow

Note: Minor dimensional variation may occur
Please refer to tank packaging for correct factory set pre-charge information.
Maximum working temperature 90°C / 194°F
Maximum working pressure: GCB- 10 bar / 150 psi ; GCN- 8.6bar / 125psi



① Leak-Free, O-ring sealed air valve cap
② Carbon steel tank shell with two-part polyurethane / epoxy primed paint finish
③ Patented CAD-2 diaphragm design
④ Stainless steel water connection
⑤ Condensation reducing design
⑥ Virgin Polypropylene Liner

CE ACS Approved WRAS APPROVED PRODUCT

C2-Lite CAD™ SERIES

FEATURES

- Patented CAD-2 diaphragm technology
- Unique 3 piece construction
- Reinforced Plastic Connection
- Durable continuous strand fiberglass sealed with epoxy resin
- CE/PED, WRAS, ACS, ISO:9001 approved
- Rugged copolymer polypropylene base
- Quality brass air stem with o-ring seal
- No sweat design
- Comprehensive testing
- No maintenance

If you are looking for the proven performance of a GWS steel tank in a lightweight composite design, C2-Lite CAD™ series is the answer. Efficient and cost effective, C2-Lite CAD™ tanks are designed with the patented controlled action diaphragm design of GWS Challenger™ tanks. Unlike other composite tanks that hide tired old bag technology in a plastic shell, the patented CAD-2 diaphragm design is stronger and will not crease and wear out. It features a chlorine resistant 100% butyl diaphragm with a precision molded copolymer polypropylene liner for superior air and water separation. This patented design allows each size tank to have a properly sized water chamber matched to the drawdown performance of that tank. C2-Lite CAD™ tanks are easy to install, weather resistant and engineered to withstand even extreme environmental conditions. When it comes to performance and durability, the GWS C2-Lite CAD™ design cannot be beat.

C2-Lite CAD™ tanks are quality tested at several stages on the production line to insure the structural integrity of every tank. C2-Lite CAD™ tanks represent the best value for the investment and are the best quality composite vessels available today.

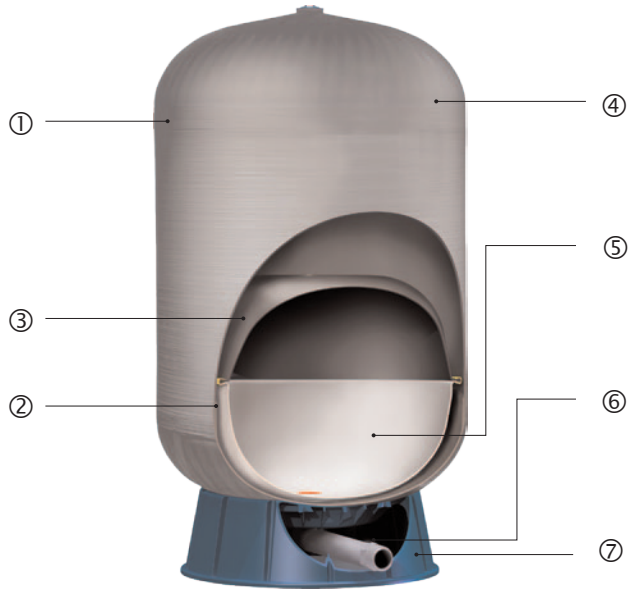
SPECIFICATIONS

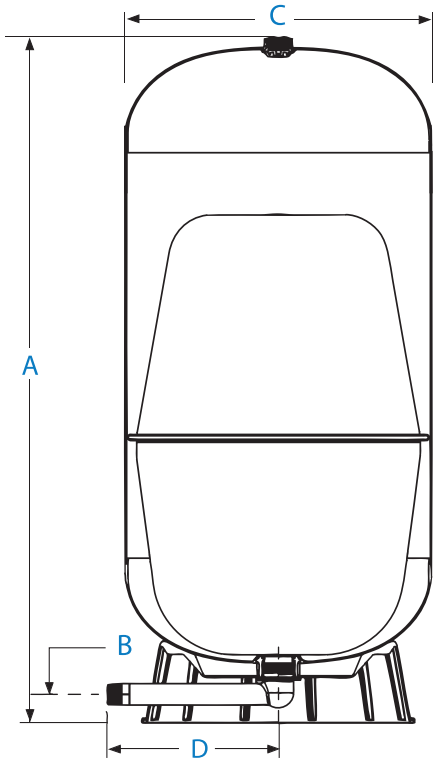
C2-Lite CAD™ Series Models

BSP	NTP	Nominal Volume		Shipping (box) Volume		Shipping (box) Weight		Dimensions							
								A		B		C		D	
		liter	gal	m^3	ft^3	kg	lbs	cm	inches	cm	inches	cm	inches	cm	inches
C2B-60LV	C2N-15GV	60	15	0.13	4.44	8.62	19.0	65.01	25.59	4.50	1.75	42.13	16.60	23.88	9.40
C2B-80LV	C2N-20GV	80	20	0.16	5.79	10.89	24.0	86.50	34.06	4.50	1.75	42.13	16.60	23.88	9.40
C2B-100LV	C2N-25GV	100	25	0.19	6.66	12.70	28.0	98.03	38.59	4.50	1.75	42.13	16.60	23.88	9.40
C2B-130LV	C2N-35GV	130	35	0.23	8.26	15.42	34.0	124.15	48.88	4.50	1.75	42.13	16.60	23.88	9.40
C2B-200LV	C2N-50GV	200	50	0.35	12.24	20.19	44.5	109.91	43.27	5.70	2.25	54.60	21.50	30.23	11.90
C2B-250LV	C2N-65GV	250	65	0.41	14.50	24.95	55.0	135.47	53.33	5.70	2.25	54.60	21.50	30.23	11.90
C2B-300LV	C2N-80GV	300	80	0.52	18.23	28.12	62.0	164.43	64.74	5.70	2.25	54.60	21.50	30.23	11.90
C2B-350LV	C2N-90GV	350	90	0.59	20.66	33.11	73.0	144.84	57.02	5.70	2.25	61.77	24.30	34.04	13.40
C2B-450LV	C2N-120GV	450	120	0.74	26.06	36.29	80.0	183.16	72.11	5.70	2.25	61.77	24.30	34.04	13.40

Max. Working Pressure 8.6 bar / 125 psi
Max. Working Temperature 49°C / 120°F
Connection C2B-60LV - C2B-130LV 1" BSP
C2B-200LV-C2B-450LV 1 1/4" BSP
C2N-15GV - C2N-35GV 1" NPT C2N-50GV - C2N-120GV 1 1/4" NPT
Please refer to tank packaging for correct factory set pre-charge information.

Note: Minor dimensional variation may occur





① Precision injection molded domes
② High-tech spin welding process
③ Patented CAD-2 controlled action diaphragm design
④ Durable continuous strand fiberglass sealed with epoxy resin
⑤ Virgin Polypropylene Liner
⑥ Reinforced Plastic Connection
⑦ Rugged base

CE ACS Approved WRAS APPROVED PRODUCT

SuperFlow™ SERIES

FEATURES

- 8 to 10,000 liters for sizes not covered by PressureWave™ and Challenger™ Series
- 10, 16 and 25 bar pressure rating
- Almond RAL 1013
- Built-in pressure gauge (Models SF100-SF10,000)
- ISO : 9001, CE approved

Global Water Solutions' SuperFlow™ tanks are ideally suited for applications where high-pressure ratings are required. These applications include booster systems, heating expansion and hammer arresting in high-rise and multistory buildings such as hotels, hospitals or business centres.

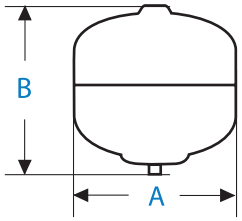
SuperFlow™ tanks range from 8 to 10,000 litres and are available in 10, 16 and 25 bar pressure ratings which makes GWS one of the most comprehensive suppliers globally. The interchangeable membrane design of the tanks allows you to replace the membrane whenever required, and the built-in pressure gauge, starting at tanks of 100 litres size, makes the system-pressure control as easy as possible.

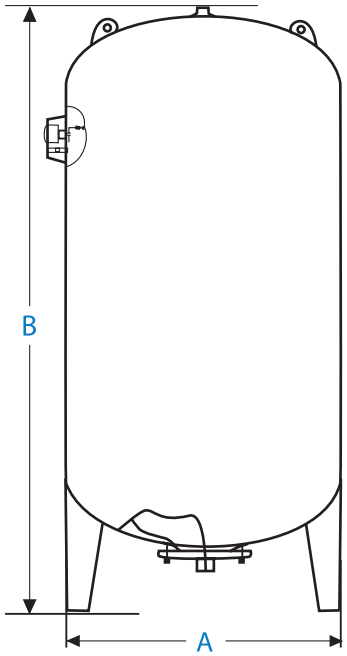
SuperFlow™ Series vessels are quality checked at several stages during the production and given regular maintenance, we recommend pre-charge check every 3 month, these vessels represent the best value for the investment and are designed to serve your needs for years to come.

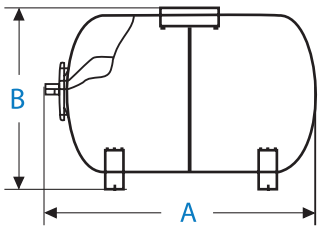
SPECIFICATIONS

SuperFlow™ Series Models

Model Numbers			Connection	Nominal Volume	Ship Weight			Dimensions	
					10 bar	16 bar	25 bar	A	B
Inline 10 bar	Inline 16 bar	Inline 25 bar	inches	liters	kg	kg	kg	cm	cm
N/A*	N/A*	SUB-12LX	1”	12	N/A	N/A	9	22	38
N/A*	N/A*	SUB-19LX	1”	19	N/A	N/A	11	28	43
N/A*	N/A*	SUB-35LX	1”	35	N/A		22	38	47
Vertical 10 bar	Vertical 16 bar	Vertical 25 bar	inches	liters	kg	kg	kg	cm	cm
N/A*	N/A*	SUB-50LV	1”	50	N/A	N/A	30	38	75
N/A*	N/A*	SUB-60LV	1”	60	N/A	N/A	33	38	81
N/A*	SMB-80LV	SUB-80LV	1”	80	N/A	26	46	43	96
N/A*	SMB-100LV	SUB-100LV	1”	100	N/A	28	51	46	99
N/A*	SMB-150LV	SUB-150LV	1”	150	N/A	50	85	50	110
N/A**	SMB-200LV	SUB-200LV	11/4”	200	N/A	68	112	59	112
N/A**	SMB-300LV	SUB-300LV	11/4”	300	N/A	79	130	64	123
N/A**	SMB-500LV	SUB-500LV	11/4”	500	N/A	115	202	75	155
SFB-750LV	SMB-750LV	SUB-750LV	2”	750	110	220	328	75	195
SFB-850LV	SMB-850LV	SUB-850LV	2”	850	145	235	344	80	195
SFB-1000LV	SMB-1000LV	SUB-1000LV	2”	1000	165	250	368	80	218
SFB-1500LV	SMB-1500LV	SUB-1500LV	2”	1500	250	375	495	96	238
SFB-2000LV	SMB-2000LV	SUB-2000LV	2”	2000	370	520	745	110	252
SFB-3000LV	SMB-3000LV	SUB-3000LV	2 1/2”	3000	550	780	910	120	280
SFB-4000LV	SMB-4000LV	SUB-4000LV	3”	4000	730	980	1290	145	310
SFB-5000LV	SMB-5000LV	SUB-5000LV	3”	5000	840	1140	1472	145	372
SFB-10000LV	SMB-10000LV	SUB-10000LV	4”	10000	1920	2500	2980	160	575
Horizontal 10 bar	Horizontal 16 bar	Horizontal 25 bar	inches	liters	kg	kg	kg	cm	cm
N/A*	N/A*	SUB-24LH	1”	24	N/A	N/A	13.5	47	28
N/A*	N/A*	SUB-50LH	1”	50	N/A	N/A	30	62	38
N/A*	N/A*	SUB-60LH	1”	60	N/A	N/A	33	67	38
N/A*	SMB-80LH	SUB-80LH	1”	80	N/A	26	46	72	43
N/A*	SMB-100LH	SUB-100LH	1”	100	N/A	28	51	80	46







Note: Minor dimensional variation may occur

Interchangable membranes

EPDM for 12L - 4000L, Butyl for 5000L - 10000L, working temperature -10˚C / 14˚F to 90˚C / 194˚F

Tank precharge: 4.0 bar / 58 psi

*Use PressureWave™, Max™ or UltraMax™ Series tanks ** Use Challenger™ Series tanks

HeatWave™ SERIES

FEATURES

- High grade butyl diaphragm
- Two part polyurethane, epoxy primed paint finish
- Leak free, o-ring sealed air valve cap
- Comprehensive testing
- ISO:9001, GOST, CE/PED approved

HeatWave™ tanks are the quality solution for hydronic expansion. HeatWave™ tanks are built to the same stringent standards as the PressureWave™ and Challenger™ tanks.

With an incorporated hex nut system connection, HeatWave™ tanks are easy to install. Its air chamber sealed with a brass air valve and o-ring sealed air cap will provide many years of leak free and service free life. Its two part polyurethane, epoxy primed paint finish will withstand the harshest indoor and outdoor climates throughout the world. HeatWave™ tanks are quality tested at several stages on the production line to insure the structural integrity of every tank.

The HeatWave™ expansion tank is designed to be either supported by the system piping, the wall mounting bracket (inline models) or freestanding (vertical models w/ base).

The expansion tank, pipes and your connections if installed incorrectly could leak water. Install the expansion tank in a location where any water leak will not cause damage. The manufacturer is not responsible for any water damage in connection with this expansion tank.

SPECIFICATIONS

HeatWave™ Series Models

Model Numbers	Nominal Volume		Shipping (box) Volume		Shipping (box) Weight		Dimensions					
							A		B		C	
	liter	gal	m^3	ft^3	kg	lbs	cm	inches	cm	inches	cm	inches
Inline Models												
HWB-2LX*	2	0.5	0.055	1.94	12.39	27.31	20.55	8.09	12.60	4.96		
HWB-4LX	4	1.1	0.01	0.35	1.62	3.57	26.05	10.26	16.2	6.38		
HWB-8LX	8	2.1	0.016	0.57	2.00	4.41	30.95	12.18	20.20	7.95		
HWB-12LX	12	3.2	0.023	0.81	2.70	5.95	36.40	14.33	23.00	9.06		
HWB-18LX	18	4.8	0.029	1.02	3.40	7.50	36.40	14.45	27.90	11.20		
HWB-24LX	24	6	0.042	1.48	4.30	9.48	44.40	17.48	29.00	11.42		
HWB-35LX	35	9.2	0.058	2.05	6.66	14.68	47.80	18.82	31.80	12.50		
Vetical Models w/ base												
HWB-60LV	60	14	0.102	3.60	10.26	22.62	57.60	22.68	38.90	15.31	16.00	6.30
HWB-80LV	80	20	0.134	4.73	14.02	30.91	77.10	30.35	38.90	15.31	16.00	6.30
HWB-100LV	100	26.4	0.168	5.93	18.77	41.38	80.40	31.65	43.00	16.90	12.90	5.08
HWB-130LV	130	34.3	0.21	7.41	26.70	58.86	107.40	42.28	43.00	16.90	12.90	5.08
HWB-150LV	150	40	0.28	9.89	33.30	73.41	92.80	36.54	53.00	20.87	13.85	5.45

Factory pre-charge: HWB-2LX - HWB-24LX 0.7 bar/ 10 psi ; HWB-35LX 1 bar/15 psi ;
HWB-60LV-HWB-150LV 1.5 bar/ 22 psi

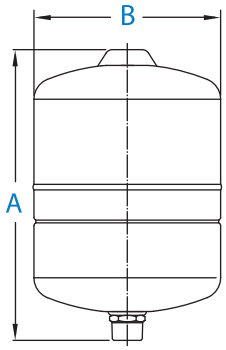
Note: Minor dimensional variation may occur

Maximum Working Temperature: 99°C / 210°F

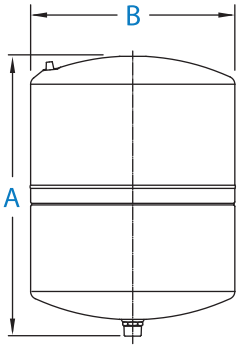
Maximum working pressure 6 bar / 87 psi

System Connection: HWB-2LX - HWB-80LV chromed carbon steel 3/4" BSP inline ; HWB-100LV - HWB-150LV stainless steel 1" BSP Elbow

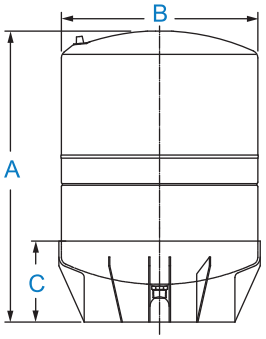
* HWB-2LX: 12 pcs / box



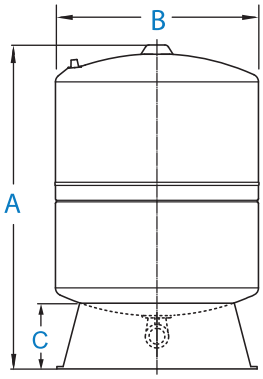
2LX, 4LX, 8LX, 35LX



12LX, 18LX, 24LX



60LV, 80LV



100LV, 150LV

HeatWave™ tanks are restricted for use in closed loop non potable hot water systems only.
Corrosion inhibitors such as propylene glycol can be used in mixture concentrations up to 50%.
Ethylene glycols should be avoided at all cost.

SolarWave™ SERIES

FEATURES

- High temperature butyl diaphragm
- High expansion volume factor
- Two part polyurethane, epoxy primed paint finish
- Leak free o-ring sealed air valve cap
- Comprehensive testing
- No maintenance

If you are looking for the proven performance of a GWS tank, SolarWave™ expansion tanks are the quality solution for your solar system. SolarWave™ expansion tanks are designed to control the expansion and contraction of solar thermal transfer fluids in solar heating Systems. The SolarWave™ Series is intended for use on the solar liquid loop of indirect thermal transfer systems.

SolarWave™tanks are built to the same stringent standards as PressureWave™ and Challenger™ tanks. They meet the demands of solar collector systems for both thermal expansion and contraction in order to maintain safe and efficient operating pressures within the solar liquid system.

A properly sized SolarWave™ tank will eliminate the need for recharging the system after periods of no use or in cases of extreme temperature buildup. It will eliminate relief valve release of system liquid and maintain minimum operating pressures throughout the system.

SolarWave™ Series expansion tanks have a large acceptance volume making them ideal for expansion and contraction control of solar collector systems which operate under a wide range of pressure and temperature.

SolarWave™ tanks are quality tested at several stages on the production line to insure the structural integrity of every tank. SolarWave™ tanks represent the best value for the investment and are the best quality solar expansion vessels available today.

SPECIFICATIONS

SolarWave™ Series Models

Model Numbers	Nominal Volume		Shipping (box) Volume		Shipping (box) Weight		Dimensions					
							A		B		C	
	liter	gal	m^3	ft^3	kg	lbs	cm	inches	cm	inches	cm	inches
SWB-2LX*	2	0.53	0.055	1.94	12.39	27.31	20.55	8.09	12.60	4.96		
SWB-8LX	8	2.1	0.016	0.57	2.17	4.78	30.95	12.19	20.20	7.95		
SWB-12LX	12	3.2	0.023	0.81	2.87	6.33	36.40	14.33	23.00	9.06		
SWB-18LX	18	4.8	0.029	1.02	3.80	8.38	36.40	14.33	27.90	10.98		
SWB-24LX	24	6	0.042	1.48	5.04	11.11	44.40	17.48	29.00	11.42		
SWB-35LX	35	9.2	0.058	2.05	6.64	14.64	47.80	18.82	31.80	12.50		
SWB-60LV	60	14	0.102	3.60	10.80	23.81	57.60	22.68	38.90	15.31	16.00	6.30
SWB-80LV	80	20	0.134	4.73	14.02	41.38	77.10	30.35	38.90	15.31	16.00	6.30
SWB-100LV	100	26.4	0.168	5.93	18.77	41.38	80.40	31.65	43.00	16.90	12.90	5.08
SWB-130LV	130	34.3	0.21	7.41	26.78	59.04	107.40	42.28	43.00	16.90	12.90	5.08
SWB-150LV	150	40	0.21	7.41	34.97	77.10	93.80	36.93	53.00	20.87	12.90	5.08

Maximum system temperature: 130°C / 266°F

Note: Minor dimensional variation may occur

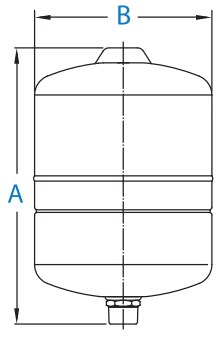
Maximum working pressure: 10 bar / 150 psi

System connection: SWB-2LX - SWB-80LV stainless steel 3/4" BSP inline ; SWB-100LV - SWB-150LV stainless steel 1" BSP Elbow

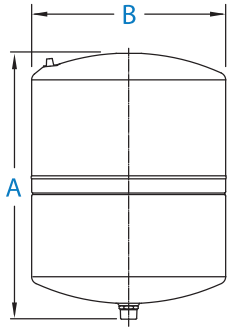
Factory pre-charge: 1.9 bar / 28 psi

* SWB-2LX and SWN-2LX: 12 pcs/ box

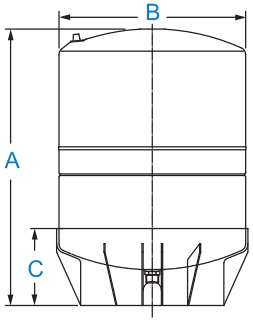
Above 150 liter use Challenger™ Series tanks



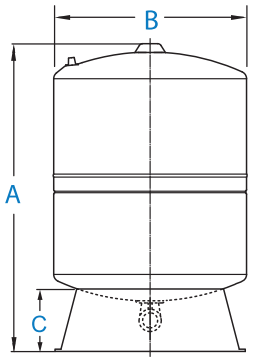
2LX, 8LX, 35LX



12LX, 18LX, 24LX



60LV, 80LV



100LV, 150LV

If the temperature of the solar system has the potential to rise above the evaporation point of the solar liquid a condenser chamber or coil is required between the solar collector and SolarWave™ Series expansion tank in order to control the maximum fluid temperature at the SolarWave™ tank.

SolarWave™ tanks are restricted for use in closed loop indirect solar hot water systems only.
Corrosion inhibitors such as propylene glycol can be used in mixture concentrations up to 50%.
Ethylene glycols should be avoided at all cost.

FlowThru™ SERIES

FEATURES

- Patented Flow-Thru Technology for freshest water
- Available in Composite and Steel
- Patented CAD-2 diaphragm technology
- No stagnation
- Patented Watervane, total recirculation of the water
- Leak free air valve cap sealed with closed cell foam
- Comprehensive testing
- No maintenance

Global Water Solutions now guarantees the freshest water quality possible with the revolutionary Flow-Thru™ Series design, available in both composite and steel models. All Flow- Thru™ tanks feature GWS's exlusive patented Flow-Thru™ technology which assures that your system will provide the freshest water quality possible by simply eliminating stagnation!

The Flow-Thru™ connection diverts system water into, and more importantly out of the tank while the pump is running. This constant flushing action assures that the water in the tank remains as fresh as possible and eliminates the possibility of stagnant water during normal system operation.

Both our steel and composite Flow-Thru™ tanks incorporate our proven patented controlled action diaphragm (CAD-2). CAD-2's steel clench ring regulates movement and prevents the diaphragm from rubbing against the tank wall.

Flow-Thru™ is also the ideal solution for constant pressure water system installers seeking to store water without the risk of stagnation.

Flow-Thru™ tanks are quality tested at several stages on the production line to insure the structural integrity of every tank. Flow-Thru™ tanks represent the best value for the investment and are the best quality Flow-Thru™ vessels available today.

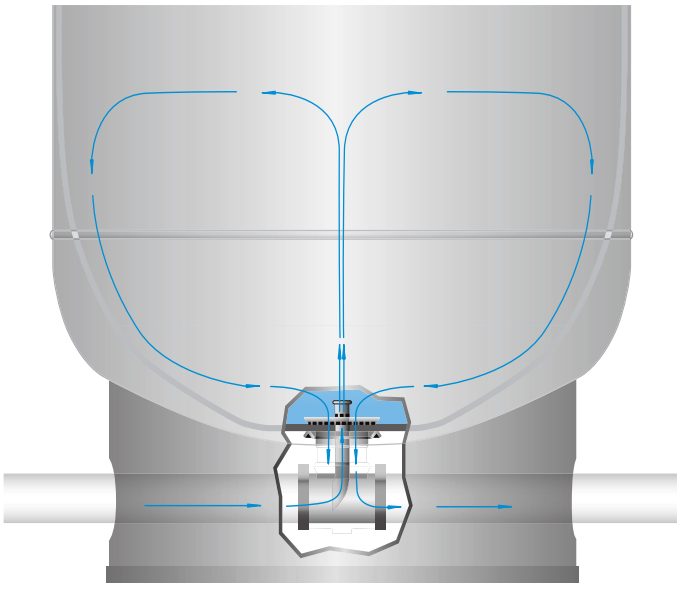
SPECIFICATIONS

FlowThru™ Series Models

BSP	NPT	Nominal Volume		Shipping (box) Volume		Shipping (box) Weight		Dimensions A		Dimensions B	
		liter	gal	m^3	ft^3	kg	lbs	cm	inches	cm	inches
Steel Models											
GFU-80LV	GFU-80LV	80	20	0.13	4.74	15.20	33.5	73.56	28.96	40.69	16.02
GFU-170LV	GFU-170LV	170	45	0.29	10.14	29.26	64.5	94.33	37.14	52.96	20.85
GFU-325LV	GFU-325LV	325	85	0.54	18.93	53.52	118.0	114.94	44.25	66.03	26.00
Composite Models											
CFB-60LV	CFN-15GV	60	15	0.13	4.44	8.60	19.0	65.00	25.60	42.13	16.59
CFB-80LV	CFN-20GV	80	20	0.16	5.53	10.90	24.0	86.51	34.06	42.13	16.59
CFB-150LV	CFN-40GV	150	40	0.32	11.45	15.90	35.0	77.44	30.49	61.77	24.32
CFB-200LV	CFN-50GV	200	50	0.34	11.95	20.20	44.5	109.91	43.27	54.56	21.48

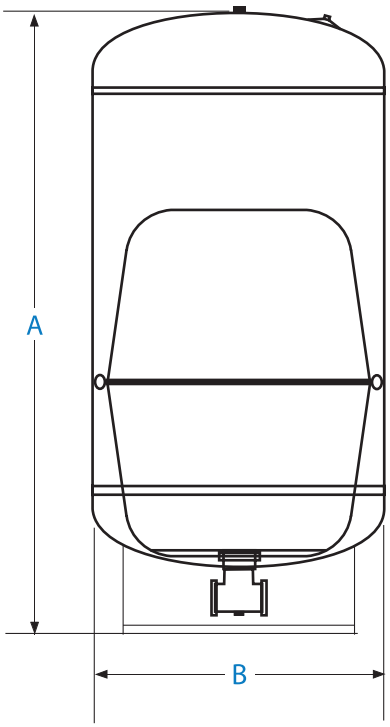
System Connection: 1 1/4" BSP / NPT
Max. Working Pressure 8.6 bar / 125 psi
Max. Working Temperature 90°C / 194°F°F (steel) ; 49°C / 120°F (composite)
Please refer to tank packaging for correct factory set pre-charge information.

Note: Minor dimensional variation may occur



Flow-Thru™ technology assures total recirculation of the tank's water content.

Patented watervane flushes water through the tank eliminating the possibility of stagnant water.



CE ACS Approved WRAS APPROVED PRODUCT

C2 Lite UT™ SERIES

FEATURES

- Precision injection molded domes for uniform wall thickness and consistent engineered dome profiles
- Reinforced with durable continuous strand fibreglass and sealed with weather-resistant epoxy resin
- Rugged base engineered to withstand maximum loads and extreme environmental conditions
- Durable, removable schedule 80 PVC water connection that can be accessorized
- Lightweight, non-corrosive, scratch-resistant construction
- CE/PED, WRAS, ACS, ISO:9001 , Evrazes approved
- Comprehensive testing
- Stainless steel reinforced top port fitting

C2-Lite UT™ tanks are ideally suited for a wide range of applications, including commercial and residential storage, contact, hydropneumatic and degassing applications.

With C2-Lite UT™ series GWS has engineered a line of lightweight composite utility tanks designed to stand up to years of tough service in the field.

C2 Lite UT™ tanks are made using a unique 3 piece internal construction design that allows for consistent engineered dome profiles and integrally bonded connections that lead to longer tank life. Its heavy duty base is molded out of ABS for maximum strength and durability. And, the C2 Lite UT™ tank has a removable schedule 80 PVC bottom connection that can be “accessorized” for increased installation flexibility. C2-Lite UT™ tanks are built to the same stringent quality standards as GWS steel tanks.

The C2Lite UT™ tanks are sold with an air volume control kit and an optional inline air injector is available as well.

C2-Lite UT™ tanks are easy to install, weather resistant and engineered to withstand even extreme environmental conditions. When it comes to performance and durability, the GWS C2-Lite UT™ design cannot be beat.

C2-Lite UT™ tanks are quality tested at several stages on the production line to insure the structural integrity of every tank. C2-Lite UT™ tanks represent the best value for the investment and are the best quality composite storage vessels available today.

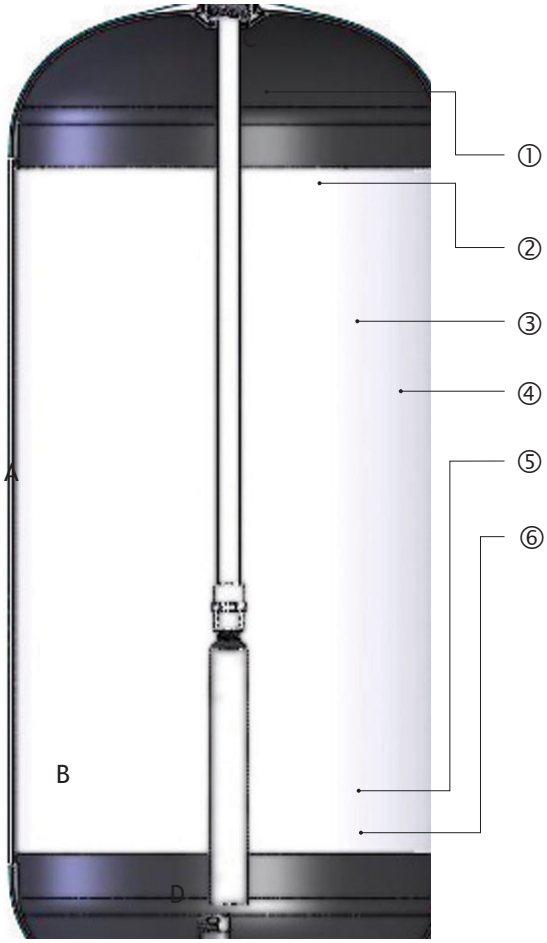
SPECIFICATIONS

C2-Lite UT™ Series Models

BSP	NPT	Nominal Volume		Shipping (box) Volume		Shipping (box) Weight		Dimensions							
								A		B		C		D	
Part Number	Part Number	liter	gal	m^3	ft^3	kg	lbs	cm	inches	cm	inches	cm	inches	cm	inches
CUB-115LV	CUN-115LV	115	30	0.20	7.00	7.40	16.3	112.78	44.40	4.50	1.80	41.80	16.60	23.90	8.10
CUB-150LV	CUN-150LV	150	40	0.25	8.80	10.00	22.1	140.46	55.30	4.50	1.80	41.80	16.60	23.90	8.10
CUB-300LV	CUN-300LV	300	80	0.52	18.30	25.80	56.9	167.64	66.00	5.70	2.30	54.20	21.50	30.20	10.70
CUB-450LV	CUN-450LV	450	120	0.74	26.00	38.20	84.2	186.44	73.40	5.70	2.30	61.40	24.30	34.00	12.30

* Minor dimensional variation may occur

Max. Working Pressure 6.9 bar / 100 psi
Max. Working Temperature 49°C / 120°F



① Top port fitting: Glass filled stainless steel reinforced polypropylene insert molded into the top dome
② Top and bottom domes: Injection molded copolymer polypropylene
③ Shell: Extruded copolymer polypropylene
④ Outer shell: Fiberglass-wound, coated with epoxy resin
⑤ Base: Injection molded high-impact ABS
⑥ Water Connection: Schedule 80 PVC pipe

Accessories

AVC Kit

Air Injector (optional)

CE ACS Approved WRAS APPROVED PRODUCT

MixMaster™ SERIES

FEATURES

- Water exits from the top of the tank through stainless steel reinforced water connection
- 0.6 baffle factor* means fewer tanks to maintain 4 log treatment and 20 minutes contact time
- New baffle design ensures uniform mixing and exeeds health agency contact time standards
- Holes in lower water chamber allow partially mixed water to enter outer chamber

Chemical disinfection using chlorine is generally considered the method of choice because it is reliable and practical.

The MIXMASTER™ baffle tank is one of the most effective High Mixing Disinfection Systems currently available. It ensures uniform mixing, and sufficient residence time to meet the CT (contact time) standard set by most health agencies. This remains true even when water is flowing continuously.

With a 0.6 baffle factor*, it also takes up less space, because one tank does the work of 4 normal tanks. MIXMASTER™, like the water that comes out of it, the choice is clear.

With a 0.6 baffle factor*, it also takes up less space, because one 450 liter / 120 gallon tank does the work of 4 equally sized C2Lite-UT™ tanks, 122 meters / 400 foot of 2" pipe or a single 300 gallon polar in / out tank. MIXMASTER™, like the water that comes out of it, the choice is clear.

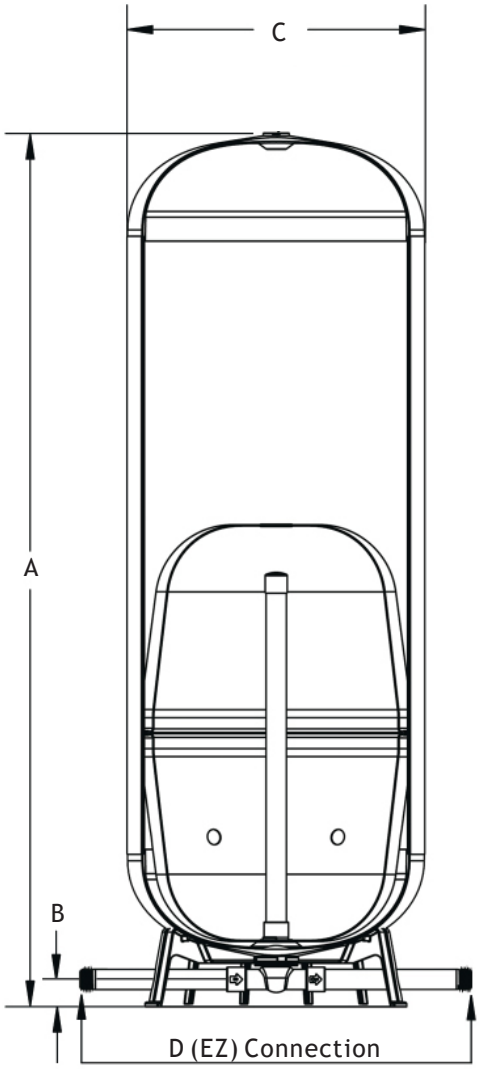
SPECIFICATIONS

MixMaster™ Series Models

NPT/BSP	Nominal Volume		Shipping (box) Volume		Shipping (box) Weight		Dimensions					
							A		B		C	
Part Number	liter	gal	m^3	ft^3	kg	lbs	cm	inches	cm	inches	cm	inches
BAF 80	300	80	0.52	18.23	33.0	73.0	108.0	57.0	5.7	2.25	61.4	24.0
BAF 120	450	120	0.74	26.06	38.0	83.5	181.6	72.1	5.7	2.25	61.4	24.0

* Minor dimensional variation may occur

Threaded Connection 1 1/4" NPT
Max. Working Pressure 6.9 bar / 110 psi
Max. Working Temperature 49°C / 120°F



MATERIALS OF CONSTRUCTION

- Top and bottom domes: injection molded copolymer polypropylene
- Shell: Extruded copolymer polypropylene
- Outer Shell: Fiberglass-wound, coated with epoxy resin
- Base: injection molded high-impact ABS
- Connection: Rigid Schedule 80 PVC
- Top port fitting: Stainless steel reinforced glass filled polypropelene insert molded into the top dome
- Inner Baffle: Copolymer polypropylene
- Inner Standpipe: Schedule 40 PVC with diffuser cap

* 0.6 Baffle factor as tested by the Water Quality Association Test labs.

CE

RoWave™ SERIES

FEATURES

- Patented stainless steel water connection
- High grade butyl diaphragm
- Virgin polypropylene liner
- Two part polyurethane, epoxy primed paint finish
- Leak free, o-ring sealed air valve cap
- CE/PED, ACS, WRAS, Evrazes approvals
- Comprehensive testing
- No maintenance

If you are looking for the proven performance of a GWS tank RoWave™ tanks are the quality solution for your RO system.

The virgin polypropylene shell, high grade butyl rubber diaphragm, and patented stainless steel water connection combine to make a pristine non-corrosive water chamber. By only using the finest materials available we ensure that our tank will not taint your pure water.

Constructed of deep drawn steel domes, RoWave™ provides an unparalleled reliability in the RO industry. Its air chamber sealed with a brass air valve and o-ring sealed air cap will provide many years of leak free and service free life. Its two part polyurethane, epoxy primed paint finish will withstand the harshest indoor and outdoor climates throughout the world.

Now RoWave™ tanks are also available in Plasteel version (available in 12, 16 and 19 liters), with a protective plastic shell around the steel tank to make them suitable for all conditions.

RoWave™ tanks are quality tested at several stages on the production line to insure the structural integrity of every tank.

SPECIFICATIONS

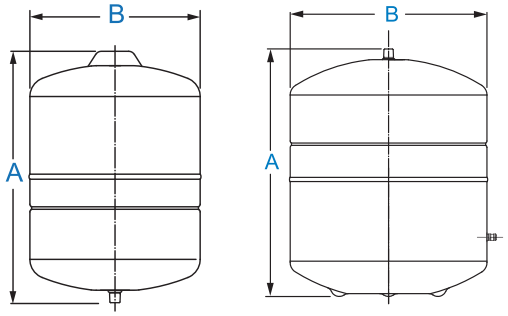
RoWave™ Series Models

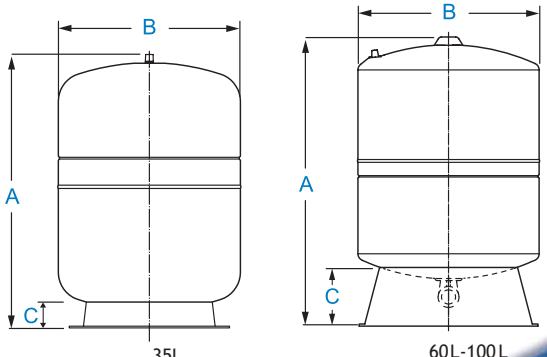
Model #'s	Nominal Volume		Shipping (box) Volume		Shipping (box) Weight		Dimensions					
							A		B		C	
Part Number	liter	gal	m^3	ft^3	kg	lbs	cm	inches	cm	inches	cm	inches
Inline Models												
RO-105	2	0.5	0.0037	0.13	0.8	1.9	19.40	7.64	12.60	4.96		
TP-4	4	1.1	0.0075	0.265	1.60	3.53	24.50	9.65	16.20	6.38		
RO-120	8	2.1	0.016	0.55	2.24	4.94	29.70	11.69	20.20	7.95		
RO-122	12	3.2	0.020	0.72	2.93	6.46	34.90	13.74	23.00	9.06		
RO-132	18	4.8	0.029	1.03	3.60	7.94	35.10	13.82	27.90	10.98		
RO-152	21	5.5	0.037	1.3	4.43	9.77	39.00	15.35	29.00	11.42		
Vertical Models												
TP-35	35	9.2	0.055	1.93	7.11	15.67	47.80	18.82	31.80	12.52	4.50	1.77
RO-1070	60	15.9	0.093	3.3	10.83	23.88	57.50	22.64	38.90	15.31	10.00	3.94
RO-2000	80	21.1	0.127	4.5	14.52	32.01	77.10	30.35	38.90	15.31	10.00	3.94
TP-100	100	26.4	0.161	5.7	19.06	42.02	80.40	31.65	43.00	16.93	12.90	5.08
TP-150	150	39.6	0.280	9.9	31.4	69.2	92.40	36.22	53.00	20.87	13.60	5.12
Plasteel™												
TP-12P	12	3.2	0.023	0.8	3.59	7.91	38.20	15.04	24.10	9.49		
TP-16P	16	4.2	0.028	0.98	3.71	8.18	39.00	15.35	25.10	9.88		
TP-19P	19	5.0	0.037	1.3	4.20	9.26	40.00	15.75	27.50	10.83		

Maximum Working Pressure 7 bar / 100 psi; Tank pre-charge: 0.5 bar / 7 psi
Models of 2 liter - 35 liter 1/4" NPT connection with plastic ball valve
Models of 60 liter - 150 liter 1" BSP elbow connection with 1" NPT plastic extension
Maximum Working Temperature: 50°C /122°F

* Minor dimensional variation may occur

① Patented stainless steel water connection
② High grade butyl diaphragm
③ Two-part polyurethane/epoxy primed paint finish
④ Virgin polypropylene liner





CE ACS Approved WRAS APPROVED PRODUCT

WATER IS LIFE