SolarWave™ Series

Indirect solar heating expansion tanks

Features

- High temperature butyl diaphragm
- Patented stainless steel water connection
- High expansion volume factor
- Dual layer polyurethane paint finish
- Leak-free O-ring sealed air valve
- Replaceable tank base
- Comprehensive testing
- Maintenance-free

Certifications may vary by model. Check with your GWS sales representative for more detailed information.

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 ensure 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.

⚠ 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 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).

Models

Model Number	Connection	Nominal Volume		Dimensions (mm)			Gross Weight [kg]
BSP		Liters	Gallons	A	B	C	
Inline							
SWB-2LX*	¾" BSPT	2	0.5	204	126	-	12.6
SWB-8LX	¾" BSPT	8	2.1	308	202	-	2.2
SWB-12LX	¾" BSPT	12	3.2	362	230	-	3.0
SWB-18LX	¾" BSPT	18	4.8	362	279	-	3.9
SWB-24LX	¾" BSPT	24	6.3	442	290	-	5.1
SWB-35LX	¾" BSPT	35	9.2	476	318	-	6.8
Vertical							
SWB-60LV	¾" BSPT	60	15.8	575	398	63	11.0
SWB-80LV	¾" BSPT	80	21.1	815	389	63	14.3
SWB-100LV	1" BSPP	100	26.4	850	430	59	19.2
SWB-130LV	1" BSPP	130	34.3	1073	430	60	25.9
SWB-150LV	1" BSPP	150	39.6	938	530	66	34.0

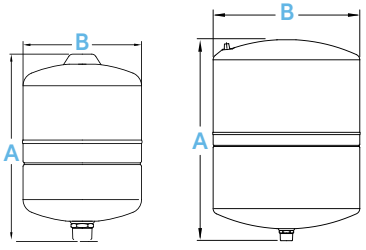
* SWB-2LX: 12 pcs/ box
60L & 80L have a slip-on base

Note: Minor dimensional variations may occur.

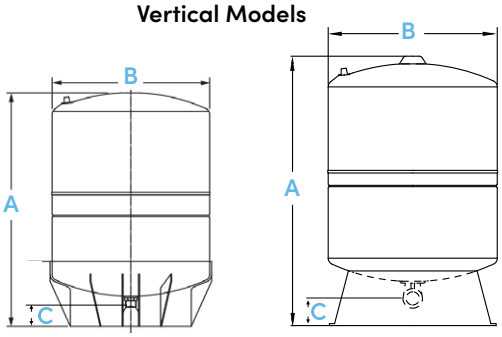
Specifications

Product Series Name	SolarWave™
Nominal Volumes	2 - 150 L / 0.5 - 39.6 gal
Min. Operating Temperature	-10°C / 14° F (Avoid Freezing)
Max. Operating Temperature	130°C / 266°F
Max. Operating Pressure	10 bar | 150 psi
Factory Pre-charge	1.9 bar | 28 psi

Inline Models



Vertical Models



WATER MOVEMENT