



# ThermoWave™

Potable hot water expansion tanks



## Features

- High-grade butyl diaphragm
- Virgin polypropylene liner
- Dual layer polyurethane paint finish
- Patented stainless steel water connection
- Leak-free O-ring sealed air valve
- Replaceable tank feet
- Comprehensive testing
- Maintenance-free



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

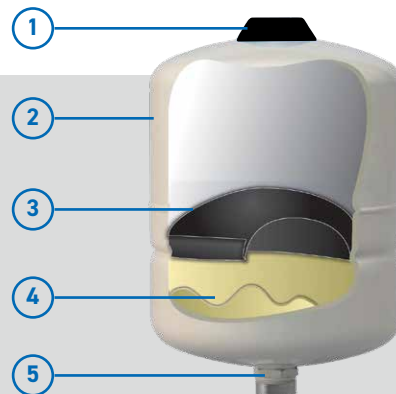
ThermoWave™ expansion tanks are specially designed for use in potable water heating applications.

Many homes and buildings have potable water heating systems to provide hot water for washing, cooking, showering, etc. As the water is heated it also expands. This expansion leads to increased system pressure and can cause serious damage. In most systems a relief valve is installed to vent the expanded water volume and prevent the system from exceeding maximum operating pressure. Unfortunately, this creates wasted energy as hot water is vented and additional water must be filled and heated again. In order to safely accommodate the natural expansion of water without venting from a relief valve, a ThermoWave expansion tank is used. ThermoWave expansion tanks conserve water and energy while safely maintaining system operating pressures. They do so by temporarily absorbing the expanded water volume instead of allowing it to be vented out of a relief valve.

As ThermoWave expansion tanks use water chambers constructed from high-grade butyl diaphragms and virgin polypropylene liners, they ensure your potable water remains clean and safe. They are quality tested at several stages on the production line to ensure the structural integrity of every tank and represent the best value for the investment and are the best quality expansion tanks available today.

### Construction of ThermoWave™ tank

1. Leak-free O-ring sealed air valve
2. Dual layer polyurethane paint finish
3. High-grade butyl diaphragm
4. Virgin polypropylene liner
5. Patented stainless steel water connection



## Models

| Model Number | Connection | Nominal Volume |         | Dimensions (mm) |     |     | Gross Weight [kg] |
|--------------|------------|----------------|---------|-----------------|-----|-----|-------------------|
| BSP          |            | Liters         | Gallons | A               | B   | C   |                   |
| Inline       |            |                |         |                 |     |     |                   |
| TWB-2LX*     | ¾" BSPT    | 2              | 0.5     | 206             | 126 | -   | 13.8              |
| TWB-4LX      | ¾" BSPT    | 4              | 1.1     | 258             | 162 | -   | 1.6               |
| TWB-8LX      | ¾" BSPT    | 8              | 2.1     | 310             | 202 | -   | 2.3               |
| TWB-12LX     | ¾" BSPT    | 12             | 3.2     | 364             | 230 | -   | 3.1               |
| TWB-18LX     | ¾" BSPT    | 18             | 4.8     | 364             | 279 | -   | 4.0               |
| TWB-24LX     | ¾" BSPT    | 24             | 6.3     | 444             | 290 | -   | 5.3               |
| TWB-35LX     | ¾" BSPT    | 35             | 9.2     | 478             | 318 | -   | 7.1               |
| Horizontal   |            |                |         |                 |     |     |                   |
| TWB-12LH     | ¾" BSPT    | 12             | 3.2     | 364             | 260 | 133 | 3.6               |
| TWB-18LH**   | ¾" BSPT    | 18             | 4.8     | 364             | 294 | 155 | 4.4               |
| TWB-24LH**   | ¾" BSPT    | 24             | 6.3     | 444             | 306 | 161 | 5.6               |
| TWB-35LH**   | ¾" BSPT    | 35             | 9.2     | 478             | 338 | 179 | 8.0               |
| TWB-60LH     | ¾" BSPT    | 60             | 15.9    | 527             | 408 | 214 | 11.5              |
| Vertical     |            |                |         |                 |     |     |                   |
| TWB-60LV     | ¾" BSPT    | 60             | 15.9    | 619             | 398 | 63  | 11.6              |

\* TWB-2LX: 12 pcs/ box

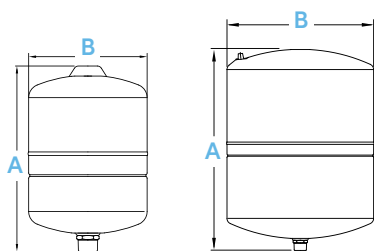
\*\* Can be wall mounted – mounting template included

Note: Minor dimensional variations may occur.

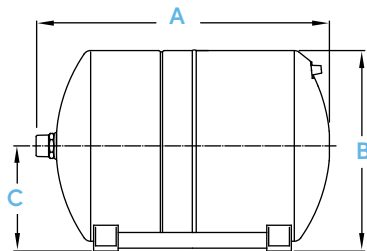
## Specifications

|                            |                           |
|----------------------------|---------------------------|
| Product Series Name        | ThermoWave™               |
| Nominal Volumes            | 2 - 60 L / 0.5 - 15.9 gal |
| Min. Operating Temperature | -10 °C / 14 °F            |
| Max. Operating Temperature | 90 °C / 194 °F            |
| Max. Operating Pressure    | 10 bar   150 psi          |
| Factory Pre-charge         | 1.9 bar   28 psi          |

**Inline Models**



**Horizontal Models**



**Vertical Models**

