



Cal Pro

Hydronic Expansion Tank

Features

- Each tank is factory leak tested to ensure tank integrity
- Certified synthetic SBR rubber diaphragm
- All diaphragms designed to maximize drawdown
- MIG welding eliminates interior rough spots and sharp edges
- Welded side outlet allows easy and quick installation
- Low profile tank design with full membrane depth eliminates stretching of diaphragm, providing increased life cycle
- External baked on epoxy-polyester coating provides a durable, appliance like finish
- Protected pre charge valve eliminates potential leak path
- 5 year warranty on all models



Side connection allows for quicker, less expensive installation

Specifications

| | |
|-------------|----------------------|
| Shell | Carbon steel |
| Connections | Carbon steel |
| Membrane | SBR synthetic rubber |
| Color | Grey |

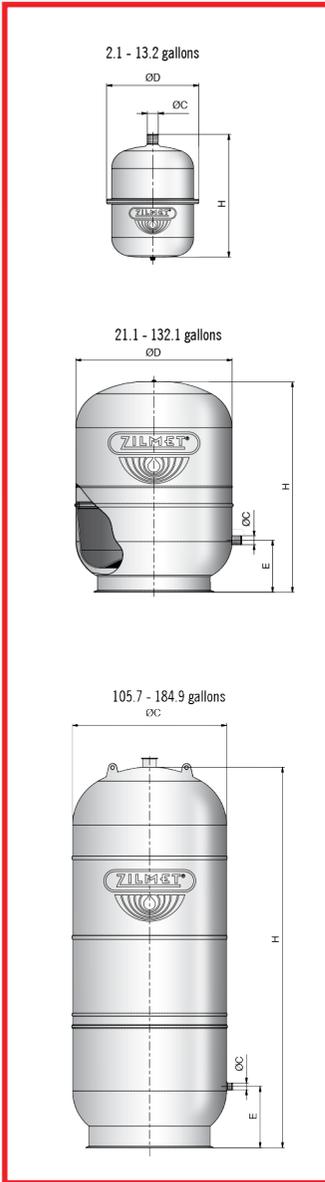
Operating Conditions

| | |
|----------------------------------|--------|
| Max working pressure 2-13.2 gal: | 60 psi |
| Max working pressure 21-184 gal: | 90 psi |
| Max operating temperature: | 210 °F |
| Factory Precharge: | 12 psi |



Technical and Dimensional Data

Technical Drawings



Inline

With Base

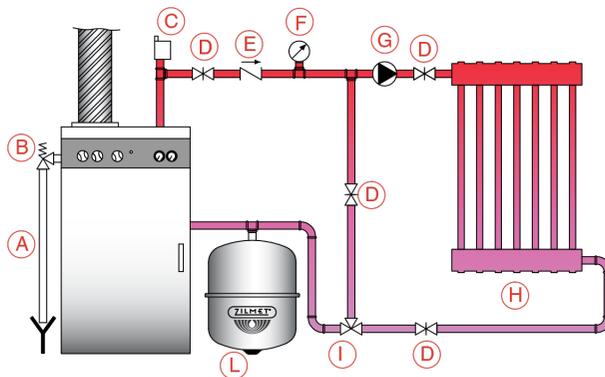
| Item | Capacity gallons | Diameter inches | Height inches | Connection Height inches | Connection | Acceptance Volume |
|----------|---------------------|--------------------|------------------|--------------------------------|------------|----------------------|
| ZHT8-15 | 2.1 | 8.7 | 11.6 | - | ½" NPT | 1.4 |
| ZHT12 | 3.2 | 11.6 | 11.1 | - | ½" NPT | 2.0 |
| ZHT18-30 | 4.8 | 11.4 | 14.8 | - | ½" NPT | 3.0 |
| ZHT24-60 | 6.3 | 12.8 | 16.3 | - | ½" NPT | 3.9 |
| ZHT35 | 9.2 | 15.9 | 16.1 | - | ¾" NPT | 5.7 |
| ZHT50-90 | 13.2 | 16.0 | 20.9 | - | ¾" NPT | 8.1 |
| ZHT35F | 9.2 | 15.9 | 15.2 | 4.7 | ¾" NPT | 5.7 |
| ZHT50F | 13.2 | 16.0 | 20.0 | 6.2 | ¾" NPT | 8.1 |
| ZHT80 | 21.1 | 17.7 | 23.9 | 5.9 | ¾" NPT | 15.3 |
| ZHT105 | 27.7 | 19.7 | 26.2 | 6.5 | ¾" NPT | 20.1 |
| ZHT150 | 39.6 | 19.7 | 35.3 | 8.5 | ¾" NPT | 28.8 |
| ZHT200 | 52.8 | 23.6 | 32.0 | 8.9 | ¾" NPT | 38.4 |
| ZHT250 | 66.0 | 24.8 | 37.0 | 9.6 | ¾" NPT | 48.0 |
| ZHT300 | 79.3 | 24.8 | 43.5 | 9.6 | ¾" NPT | 57.7 |
| ZHT400 | 105.7 | 24.8 | 57.1 | 9.6 | ¾" NPT | 76.8 |
| ZHT500 | 132.1 | 29.5 | 52.8 | 11.4 | ¾" NPT | 96.0 |
| ZHT600 | 158.5 | 29.5 | 61.2 | 11.4 | 1" NPT | 115.2 |
| ZHT700 | 184.9 | 29.5 | 69.1 | 11.4 | 1" NPT | 134.2 |

Sizing Chart

Type of Radiation

| Boiler Net Output (1000's of BTU/Hr) | Finned Tube Baseboard and Radiant | Convection and Unit Heaters | Cast Iron Radiators | Cast Iron Baseboard |
|---|--------------------------------------|--------------------------------|------------------------|------------------------|
| 25 | ZHT8-15 | ZHT8-15 | ZHT8-15 | ZHT8-15 |
| 50 | ZHT8-15 | ZHT8-15 | ZHT18-30 | ZHT18-30 |
| 75 | ZHT8-30 | ZHT18-30 | ZHT18-30 | ZHT24-60 |
| 100 | ZHT8-30 | ZHT18-30 | ZHT24-60 | ZHT24-60 |
| 125 | ZHT8-30 | ZHT24-60 | ZHT24-60 | ZHT24-60 |
| 150 | ZHT8-30 | ZHT24-60 | ZHT50-90 | ZHT50-90 |
| 175 | ZHT24-60 | ZHT24-60 | ZHT50F | ZHT50F |
| 200 | ZHT24-60 | ZHT24-60 | ZHT50F | ZHT50F |
| 250 | ZHT24-60 | ZHT50-90 | ZHT50F | ZHT80 |
| 300 | ZHT50-90 | ZHT50F | ZHT50F | ZHT80 |
| 350 | ZHT50F | ZHT50F | ZHT80 | ZHT105 |
| 400 | ZHT50F | ZHT80 | ZHT80 | ZHT105 |
| 500 | ZHT80 | ZHT105 | ZHT105 | ZHT150 |

Assembly Diagram



- A - draining
- B - safety valve
- C - air bleeder
- D - gate valve
- E - backflow preventer
- F - pressure gauge
- G - pump
- H - utilities
- I - mixing valve
- L - Zilmet expansion vessel
- M - boiler