



CAL-PRO

WHERE QUALITY COMES FIRST





heating

cal-pro Application: expansion vessels for heating systems.

■ general features



Advantages:

Zilmet has over 50 years of experience in manufacturing high quality diaphragm expansion tanks

- Over 2 million square feet of production space
- Has produced over 7.5 million tanks and over 1 million heat exchangers
- Fully vertically integrated, designing and manufacturing all diaphragms internally

Zilmet has created a compact design with a seamless diaphragm that never stretches or creases.

There are no bubbles or corners to trap sediment, inhibiting bacterial growth

- Wide range available (from 2 to 184 gallons)

Technical 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
- Tank customization available upon request

Operation

In a closed heating system water cannot be compressed and any increase in water volume due to the increase of its temperature is absorbed by the expansion vessel. When water is cold, the precharge pressure of the tank presses the diaphragm against the tank. As temperature increases, the expanded water volume pushes against the membrane and water enters the tank, providing additional space to the system. With the temperature decrease, the air cushion forces water back into the system. This permits the system to maintain the pressure, helping to reduce energy consumption of the heating system.





technical and dimensional data

Model #	Capacity	Ø Diameter	H height	Connection height	Connection
	Gallons				
ZHT8	2.1	8.7	11.6	-	1/2" NPT
ZHT12	3.2	11.6	11.1	-	1/2" NPT
ZHT18	4.8	11.4	14.8	-	1/2" NPT
ZHT24	6.3	12.8	16.3	-	1/2" NPT
ZHT35	9.2	15.9	16.1	-	3/4" NPT
ZHT35F	9.2*	15.9	15.2	4.7	3/4" NPT
ZHT50	13.2	16.0	20.9	-	3/4" NPT
ZHT50F	13.2*	16.0	20.0	6.2	3/4" NPT
ZHT 80	21.1	17.7	23.9	5.9	3/4" NPT
ZHT105	27.7	19.7	26.2	6.5	3/4" NPT
ZHT150	39.6	19.7	35.3	8.5	3/4" NPT
ZHT200	52.8	23.6	32.0	8.9	3/4" NPT
ZHT250	66.0	24.8	37.0	9.6	3/4" NPT
ZHT300	79.3	24.8	43.5	9.6	3/4" NPT
ZHT400	105.7	24.8	57.1	9.6	3/4" NPT
ZHT500	132.1	29.5	52.8	11.4	1" NPT
ZHT600	158.5	29.5	61.2	11.4	1" NPT
ZHT700	184.9	29.5	69.1	11.4	1" NPT

* with feet

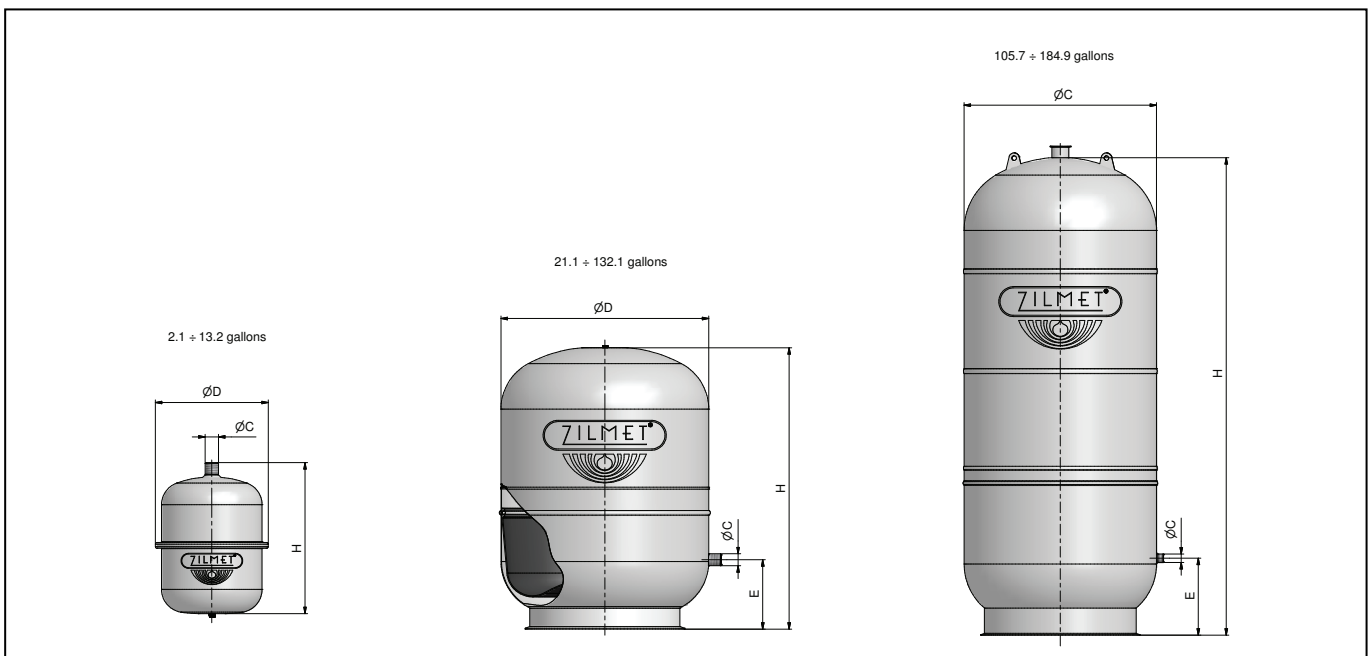
material description

description	material
shell	carbon steel
connections	carbon steel
membrane	SBR synthetic rubber
color	grey

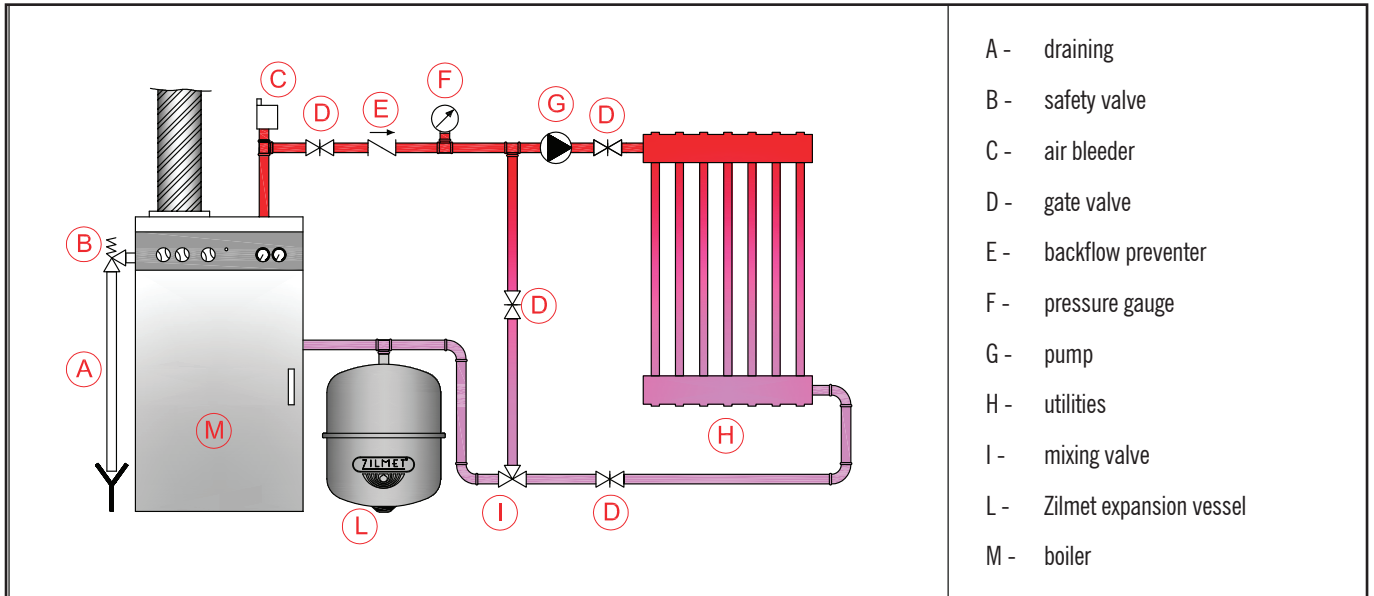
operating conditions

max. working pressure 2-13.2 gal	60 psi
max. working pressure 21-184 gal	90 psi
max. operating temperature	210°F
factory precharge	14 psi

technical drawings



assembly diagram



cal pro sizing chart

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



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