

## ASME EXPANSION TANK

- Replaceable bladder
- Bottom connection

Calefactio type AL bottom connection ASME expansion tanks are designed for use in hydronic heating/cooling systems to accept the additional fluid caused by the heating of the heat transfer fluid. The tank returns this fluid to the system as the system temperature is lowered.

The bottom system connection allows the bladder to operate in a stress free atmosphere as the heavy duty butyl bladder is always supported by the tank shell and the fluid is removed from the bottom of the tank where it rests during storage.

This bottom connection also eliminates the tank as a place where system particles can settle out of suspension and later be released back into the system in a concentrated form causing problems with pump seals, plugging balancing valves and system controls.

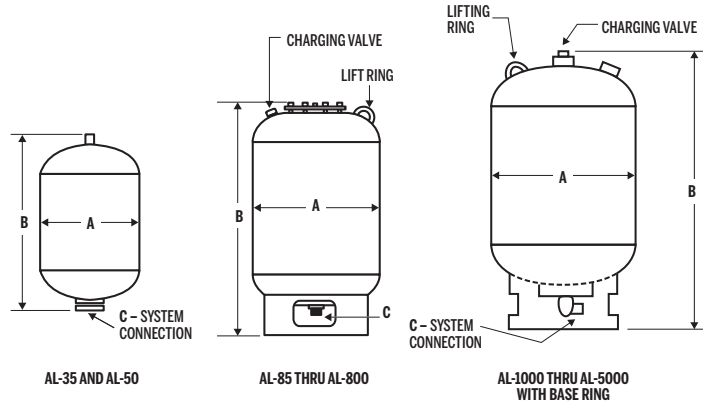
- 100 % acceptance factor
- Permanent separation of air/water over the life of the system
- Water is "in the bag". Steel tank never touches the water
- Tanks have a replaceable bladder
- Can be manifolded for additional capacity or to fit through an existing door
- Factory air precharged and field adjustable

125 psi (862 kPa) operating pressure 240 °F maximum temperature at tank.

Factory air precharged 12 psi (183 kPa).

Prime painted exterior finish.

Contact factory for larger capacity and higher pressure.



Model	Tank and acceptance volume		Dimensions				NPT connection (C)		Shipping weight	
			Diameter (A)		Height (B)					
	gal	L	in	mm	in	mm	in	mm	lb	kg
AL-35	10	38	12	305	25	635	¾	19	40	18
AL-50	13	50	14	356	25	635	¾	19	50	23
AL-85	23	87	16	406	37	940	1	25	90	41
AL-130	35	132	20	508	37	940	1	25	125	57
AL-200	53	200	24	610	43	1092	1½	38	210	95
AL-300	79	299	24	610	55	1397	1½	38	225	102
AL-400	106	401	30	762	49	1245	1½	38	300	136
AL-500	132	500	30	762	57	1448	1½	38	335	152
AL-600	158	598	30	762	65	1651	1½	38	360	163
AL-800	211	798	32	813	76	1930	1½	38	475	215
AL-1000	264	999	36	914	82	2083	1½	38	850	386
AL-1200	317	1200	36	914	94	2388	1½	38	950	431
AL-1400	370	1400	36	914	107	2718	1½	38	1050	476
AL-1600	422	1597	48	1219	77	1956	1½	38	1545	701
AL-2000	528	1999	48	1219	90	2286	1½	38	1745	792
AL-2500	660	2498	48	1219	108	2743	2	50	1965	891
AL-3000L	792	2998	48	1219	125	3175	2	50	2200	998
AL-3000S	792	2998	60	1524	91	2311	2	50	2700	1225
AL-4000	1056	3997	60	1524	115	2921	2	50	3780	1718
AL-5000	1320	4996	60	1524	137	3480	2	50	3600	1633

QUANTITY: \_\_\_\_\_ MODEL: AL- \_\_\_\_\_ OPTION:  Seismic bracket – Suffix "VB"  
(Fits models AL-85 to AL-5000)

Notes: \_\_\_\_\_  
 Project: \_\_\_\_\_ Representative: \_\_\_\_\_  
 Location: \_\_\_\_\_ Date submitted: \_\_\_\_\_  
 Engineer: \_\_\_\_\_ Approved by: \_\_\_\_\_  
 Contractor: \_\_\_\_\_ Date of approval: \_\_\_\_\_

**TYPICAL SPECIFICATIONS:** Furnish and install, as shown on the plans, a \_\_\_\_\_ gallons/liters \_\_\_\_\_ in/mm diameter x \_\_\_\_\_ in/mm (high) air precharged steel expansion tank, with a heavy duty butyl replaceable bladder. The tank shall have a bottom NPT stainless steel system connection and a .302"-.32 charging valve (standard tire valve) to facilitate the on-site charging of the tank to meet system requirements. The tank must be constructed in accordance with Section VIII of the ASME Boiler and Pressure Vessel Code and stamped \_\_\_\_\_ psi working pressure. Each tank shall be Calefactio model AL- \_\_\_\_\_ or approved equal.