

# L SERIES HIGH PRESSURE | HYDRONIC EXPANSION TANKS | 35-L TO 800-L | SUBMITTAL

File No: 37.522  
Date: APRIL 05, 2022  
Supersedes: 37.522  
Date: JUNE 15, 2016

Job: \_\_\_\_\_ Representative: \_\_\_\_\_  
 \_\_\_\_\_ Ordered by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Engineer: \_\_\_\_\_ Submitted by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Contractor: \_\_\_\_\_ Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

## DATA

Model no. ordered: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Tag no.: \_\_\_\_\_ Charge pressure: \_\_\_\_\_ psi/kPa  
 Optional California sight-glass and seismic clips:  Yes  No  
 Standard factory charge is 40 psi (276 kPa) unless otherwise specified.

## MAXIMUM OPERATING CONDITIONS

**Temperature Range:** 40°F to 240°F (4.4°C to 115.5°C)  
**Maximum Pressure:**  175 psi (1206 kPa)  
 250 psi (1724 kPa)

## DESCRIPTION

L series (High Pressure) Tanks are ASME removable bladder type pre-charged expansion tanks. They are designed to absorb the expansion forces and control the pressure in heating/cooling systems. The system's expanded water (fully compatible with water/glycol mixtures) is contained in a full acceptance heavy-duty butyl bladder that prevents tank corrosion and waterlogging problems. All L series expansion tanks can be installed vertically or horizontally.

## MATERIALS OF CONSTRUCTION

**Shell:** Carbon steel  
**Bladder:** Heavy Duty Butyl  
**System Connection:** Carbon Steel

## TYPICAL SPECIFICATION

Furnish and install, as shown on plans, a \_\_\_\_\_ gallon \_\_\_\_\_" diameter x \_\_\_\_\_" (high) pre-charged steel expansion tank with heavy-duty butyl bladder. The tank shall have NPT system connections and a 0.302"-32 charging valve connection (standard tire valve) to facilitate the on-site charging of the tank to meet system requirements. The tank must be constructed in accordance with most recent edition of Section VIII Division 1 of the ASME Boiler and Pressure Vessel Code.

## NOTES

- Tanks are factory pre-charged at 40 psi and field adjustable.
- California code-sight glass is available upon request.
- Both top and bottom connections (c and d) access the bladder.
- Mounting kit available upon request

MODEL	TANK VOLUME in gal.(L)	DIMENSIONS in inches (mm)						APPROX. SHIPPING WEIGHT in lbs.(kg)		
		A	B	SYSTEM CONNECTION NPT		CHARGING VALVE	F	G	175PSI	250PSI
				C	D					
35-L	10 (38)	12.00 (305)	23.50 (597)	—	0.75 (19)	0.302" - 32NC	10.00 (254)	—	52 (23.6)	53 (24.0)
50-L	13 (49)	14.00 (356)	24.00 (610)	—	0.75 (19)		10.00 (254)	—	59 (26.8)	65 (29.5)
85-L	23 (87)	16.00 (406)	37.00 (940)	1.00 (25)	0.75 (19)		12.00 (305)	5.50 (140)	95 (43.1)	105 (47.6)
130-L	35 (132)	20.00 (508)	37.00 (940)	1.00 (25)	0.75 (19)		16.00 (406)	5.50 (140)	127 (57.6)	141 (63.9)
200-L	53 (200)	24.00 (610)	43.00 (1092)	1.50 (38)	0.75 (19)		20.00 (508)	5.25 (133)	194 (88.0)	220 (99.8)
300-L	79 (300)	24.00 (610)	55.00 (1397)	1.50 (38)	0.75 (19)		20.00 (508)	5.25 (133)	252 (114.3)	282 (127.9)
400-L	106 (400)	30.00 (762)	49.00 (1245)	1.50 (38)	0.75 (19)		24.00 (610)	5.25 (133)	336 (152.4)	410 (186.0)
500-L	132 (500)	30.00 (762)	57.00 (1448)	2.00 (51)	0.75 (19)		24.00 (610)	5.25 (133)	400 (181.4)	512 (232.2)
600-L	158 (600)	30.00 (762)	65.00 (1651)	2.00 (51)	0.75 (19)		24.00 (610)	5.25 (133)	419 (190.0)	569 (258.1)
800-L	211 (800)	32.00 (813)	76.00 (1930)	2.00 (51)	0.75 (19)	28.00 (711)	5.25 (133)	592 (268.5)	711 (322.5)	

TORONTO  
+1 416 755 2291

BUFFALO  
+1 716 693 8813

DROITWICH SPA  
+44 8444 145 145

MANCHESTER  
+44 8444 145 145

BANGALORE  
+91 80 4906 3555

SHANGHAI  
+86 21 5237 0909

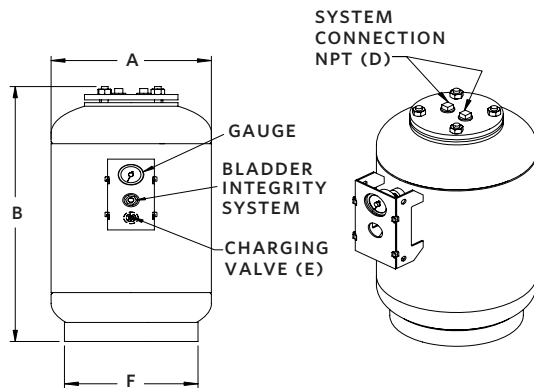
SÃO PAULO  
+55 11 4785 1330

LYON  
+33 4 26 83 78 74

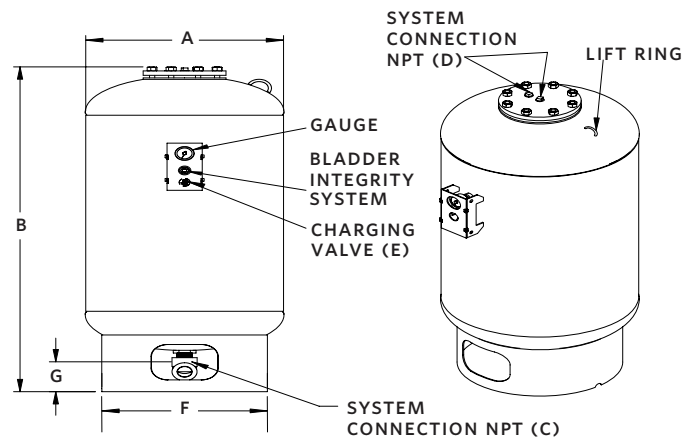
DUBAI  
+971 4 887 6775

MANNHEIM  
+49 621 3999 9858

JIMBOLIA  
+40 256 360 030



MODELS 35-L & 50-L



MODELS 85-L TO 800-L