

# Thermal Expansion Absorber For Potable Water

## TX SERIES TANKS

### SPECIFICATION DATA



## FEATURES

- Heavy duty butyl rubber diaphragm (FDA approved) isolates water from air.
- Polypropylene liner, 100% non-metallic, non-corrosive water reservoir.
- Prevents water hammer.
- Maintenance-free.
- Protects water heater from harmful pressure cycling.
- Allows storage of expanded water with no increase in system pressures.

## GENERAL

The Honeywell Thermal Expansion Absorber is a pre-pressurized Expansion tank with a butyl diaphragm designed to control excess pressure in potable hot water systems. It's use for household as well as small commercial hot water heaters will save energy and operating problems by preventing relief valve operation due to excessive system pressure.

## SPECIFICATIONS

**Maximum Pressure:** 150 psi (1034 kPa).

**Maximum Temperature:** 200° F (93° C).

**Standard Factory Air Charge:** 40 psi (276 kPa).

NOTE: Relief valve must be set to 150 psi (1034 kPa) maximum.

**Materials:**

Diaphragm: Butyl Rubber.

Liner: Polypropylene.

Connection: Brass.

**Approvals:** SBCCI, NSF61, City of Los Angeles and others. IAPMO listed.



## PRODUCT INFORMATION

Table 1. Non-ASME Construction

Product Number	Tank Volume in gal. (L)	Maximum Acceptable Volume in gal. (L)	Connection Size NPT	Dimensions		Shipping Weight in lbs (kg)
				Diameter in inches (mm)	Height in inches (mm)	
TX-5	2.0 (7.5)	0.9 (3.4)	3/4 in. M	8 (203)	15 5/8 (321)	5 (2.3)
TX-12	4.4 (16.7)	3.2 (12.1)	3/4 in. M	11 (279)	15 (381)	9 (4.1)
TX-25V	10.3 (39)	10.3 (39)	3/4 in. F	15 3/8 (391)	19 1/4 (489)	23 (10.4)
TX-30V	14.0 (53.0)	11.3 (42.8)	3/4 in. F	15 3/8 (391)	27 7/8 (606)	25 (11.3)
TX-42V	20.0 (75.0)	11.4 (43.2)	3/4 in. F	15 3/8 (391)	31 5/8 (803)	33 (15.0)
TX-60V	34.0 (128.7)	34.0 (128.7)	1 1/4 in. F	22 (559)	29 5/8 (752)	61 (27.7)
TX-80V	44.0 (166.6)	33.9 (128.3)	1 1/4 in. F	22 (559)	36 (914)	69 (31.3)
TX-180	62.0 (234.7)	34.1(129.1)	1 1/4 in. F	22 (559)	46 5/8 (1184)	92 (41.7)
TX-210	86.0 (333.1)	46.4 (175.6)	1 1/4 in. F	26 (660)	47 1/4 (1200)	123 (55.8)
TX-451	158.0 (598.1)	103 (389.7)	2 in. F	30 (762)	74 1/2 (1892)	626 (283.9)
TX-452	211.0 (798.7)	107 (405.0)	2 in. F	30 (762)	92 1/2 (2350)	760 (344.7)
TX-453	264.0 (999.3)	172 (651.1)	3 in. F	36 (914)	85 5/8 (2175)	810 (267.4)
TX-454	317.0 (1200.0)	206 (779.8)	3 in. F	36 (914)	98 (2489)	914 (414.6)
TX-455	370.0 (1400.6)	241 (912)	3 in. F	36 (914)	110 3/8 (2804)	1018 (461.8)
TX-456	422.0 (1577.4)	275 (1041.0)	3 in. F	48 (1219)	81 7/8 (2680)	1655 (750.7)
TX-457	528.0 (1998.2)	344 (1302.2)	3 in. F	48 (1219)	95 3/4 (2432)	1925 (873.2)

Table 2. ASME Construction

Product Number	Tank Volume in gal. (L)	Maximum Acceptable Volume in gal. (L)	Connection Size NPT	Dimensions		Shipping Weight in lbs (kg)
				Diameter in inches (mm)	Height in inches (mm)	
TX-5-C	2.1 (7.9)	0.86 (3.3)	3/4 in. M	10 (254)	10 3/8 (264)	21 (9.8)
TX-12-C	4.7 (17.8)	2.6 (9.8)	3/4 in. M	12 (305)	12 1/2 (318)	34 (15.4)
TX-20V-C	7.6 (28.8)	2.6 (9.8)	3/4 in. F	12 (305)	20 3/4 (527)	49 (22.2)
TX-30V-C	12.5 (47.3)	10.0 (37.9)	3/4 in. F	16 1/4 (413)	17 1/4 (438)	84 (38.1)
TX-42V-C	17.5 (47.3)	11.4 (43.2)	3/4 in. F	16 1/4 (413)	24 1/4 (616)	98 (44.5)
TX-60V-C	25.0 (94.6)	11.3 (42.8)	3/4 in. F	16 1/4 (413)	34 (864)	125 (56.7)
TX-80V-C	53.0 (200.6)	34.5 (130.6)	1 1/4 in. F	24 (610)	40 1/2 (1029)	190 (86.2)
TX-180-C	77.0 (291.5)	33.9 (128.3)	1 1/4 in. F	24 (610)	52 5/8 (1337)	255 (115.7)
TX-210-C	88.0 (333.1)	34.3 (129.8)	1 1/4 in. F	24 (610)	60 (1524)	295 (133.8)
TX-451-C	158.0 (598.1)	103 (389.7)	2 in. F	30 (762)	74 1/2 (1892)	626 (283.9)
TX-452-C	211.0 (798.7)	107 (405.0)	2 in. F	30 (762)	92 1/2 (2350)	760 (344.7)
TX-453-C	264.0 (999.3)	172 (651.1)	3 in. F	36 (914)	85 5/8 (2175)	810 (267.4)
TX-454-C	317.0 (1200.0)	206 (779.8)	3 in. F	36 (914)	98 (2489)	914 (414.6)
TX-455-C	370.0 (1400.6)	241 (912)	3 in. F	36 (914)	110 3/8 (2804)	1018 (461.8)
TX-456-C	422.0 (1577.4)	275 (1041.0)	3 in. F	48 (1219)	81 7/8 (2680)	1655 (750.7)
TX-457-C	528.0 (1998.2)	344 (1302.2)	3 in. F	48 (1219)	95 3/4 (2432)	1925 (873.2)

### Automation and Control Solutions

Honeywell International Inc.  
1985 Douglas Drive North  
Golden Valley, MN 55422  
customer.honeywell.com

Honeywell Limited-Honeywell Limitée  
35 Dynamic Drive  
Toronto, Ontario M1V 4Z9

# Honeywell

