

# 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)                |

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