

Residential Expansion Tanks

TX Series Expansion Tanks - Domestic Hot Water



The Honeywell Thermal Expansion Absorber is a welded, pressurized expansion tank with a butyl diaphragm to control excess pressure in potable hot water systems. The Thermal Expansion Tank controls pressure build-up in the system, eliminates relief valve spillage, protects fixtures and extends water heater life.

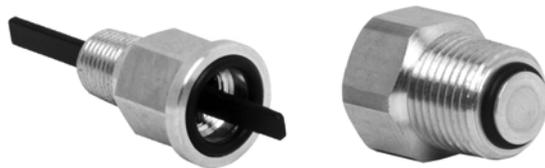
- Heavy duty butyl rubber diaphragm (FDA approved) isolates water from air.
- Polypropylene liner, 100% non-metallic, non-corrosive water reservoir.
- Full size range: 2-528 gals., for all water heating volumes (ASME available).
- Prevents water hammer.
- Maintenance free.
- Protects water heater from harmful pressure cycling.
- Allows storage of expanded water with no increase in system pressures.

Maximum Operating Temperature: 200 F (93 C)
Maximum Operating Pressure: 150 psi (1034 kPa)
Precharge: 40 psi
Comments: Potable

Materials
Shell: Steel
Connection: Brass
Liner: Polypropylene
Diaphragm: Butyl

Product Number	Con- nection Size (inch)	Connection Type	Diameter		Height		Volume		Maximum Acceptance Volume		Weight	
			(inch)	(mm)	(inch)	(mm)	(gal)	(L)	(gal)	(L)	(lb)	(kg)
TX-5	3/4 in.	Male NPT	8 in.	203.2 mm	12 5/8 in.	321 mm	2.0 gal	7.6 L	0.9 gal	3.41 L	5 lb	2.27 kg
TX-12	3/4 in.	Male NPT	11 in.	279 mm	12 5/8 in.	321 mm	4.4 gal	16.7 L	3.2 gal	12.1 L	5 lb	2.27 kg
TX-25V	3/4 in.	Female NPT	15 3/8 in.	390.5 mm	19 1/4 in.	489 mm	10.3 gal	39 L	10.3 gal	39 L	23 lb	10.43 kg
TX-30V	3/4 in.	Female NPT	15 3/8 in.	390.5 mm	23 7/8 in.	606 mm	14.0 gal	53.1 L	11.3 gal	42.8 L	25 lb	11.34 kg
TX-42V	3/4 in.	Female NPT	15 3/8 in.	390.5 mm	31 5/8 in.	803 mm	20.0 gal	75.7 L	11.4 gal	43.2 L	33 lb	14.97 kg
TX-60V	1 1/4 in.	Female NPT	22 in.	558.8 mm	29 5/8 in.	752.5 mm	34.0 gal	128.7 L	34.0 gal	128.7 L	61 lb	27.67 kg
TX-80V	1 1/4 in.	Female NPT	22 in.	558.8 mm	40 1/2 in.	914 mm	44.0 gal	166.5 L	33.9 gal	128.3 L	63 lb	28.58 kg
TX-180V	1 1/4 in.	Female NPT	22 in.	558.8 mm	46 3/4 in.	1187.5 mm	62.0 gal	235 L	34.1 gal	129.1 L	92 lb	41.73 kg
TX-210V	1 1/4 in.	Female NPT	26 in.	660.4 mm	47 1/4 in.	1200 mm	86.0 gal	325.5 L	46.4 gal	175.6 L	123 lb	55.79 kg

Service Check Valves



Service Check Valves for air vents and expansion tanks allow easy field service without draining system.

CAUTION

Reduce system temperature to ambient and pressure to 0 psi before servicing component. Failure to do so may result in injuries.

Maximum Operating Temperature: 240 F (115 C)
Maximum Operating Pressure: 100 psi (689 kPa)

Product Number	Connection Size (inch)	Connection Type
SCV-0125	1/8 in.	Inlet FNPT, Outlet MNPT
SCV-050	1/2 in.	Inlet FNPT, Outlet MNPT

Residential Expansion Tanks

TK300 Series Expansion Tanks - Heating



Honeywell Expansion Tanks are designed to absorb hot water expansion in closed heating systems. They are equipped with butyl diaphragms to separate the air from the system water (glycol). The tanks are a welded, not clamped design. Pre-pressurized at 12 psi, the tank keeps fluids circulating and maintains minimum system pressure. Honeywell tanks resist waterlogging, loss of pressure through relief valve spills, loss of BTUs and reduce circulator running time. Use the super efficient Honeywell PowerVent or air vents to remove air and micro-bubbles from the system for maximum performance.

- Butyl/EPDM diaphragm- 9 times better than natural rubber
- Deep-drawn steel tank
- Controls system pressure
- Air-tight cushion-factory pre-charged to 12 psig and 100% tested

Maximum Operating Temperature: 240 F (115 C)
Maximum Operating Pressure: 100 psi (689 kPa)

Materials: steel shell, heavy duty butyl diaphragm
Comments: Heating

Product Number	Connection Size (inch)	Connection Type	Diameter		Height		Volume		Maximum Acceptance Volume		Weight	
			(inch)	(mm)	(inch)	(mm)	(gal)	(L)	(gal)	(L)	(lb)	(kg)
TK300-15	1/2 in.	Male NPT	8 in.	203.2 mm	12 5/8 in.	321 mm	2.0 gal	7.6 L	1 gal	3.8 L	5 lb	2.3 kg
TK300-30	1/2 in.	Male NPT	11 in.	279 mm	15 1/2 in.	394 mm	4.4 gal	16.7 L	2.5 gal	9.5 L	9 lb	4.1 kg
TK300-60	1/2 in.	Male NPT	11 in.	279 mm	23 in.	584 mm	7.6 gal	28.8 L	2.5 gal	9.5 L	14 lb	6.4 kg
TK300-90	1/2 in.	Male NPT	15 3/8 in.	390.5 mm	21 in.	533 mm	14.0 gal	53.1 L	11.5 gal	40.1 L	23 lb	10.4 kg

Hydronic Controls

Expansion Tank Sizing based on BTU's

Boiler	Type of Radiation				
	Net Output in 1000's of BTU/Hr	Finned Tube Baseboard or Radiant Panel	Convectors or Unit Heaters	Radiators Cast Iron	Baseboard Cast Iron
		Use Model	Use Model	Use Model	Use Model
25	TK300-15	TK300-15	TK300-15	TK300-15	
50	TK300-15	TK300-15	TK300-30	TK300-30	
75	TK300-30	TK300-30	TK300-30	TK300-60	
100	TK300-30	TK300-30	TK300-60	TK300-60	
125	TK300-30	TK300-60	TK300-60	TK300-90	
150	TK300-30	TK300-60	TK300-90	TK300-90	
175	TK300-60	TK300-60	XPS-030V	XPS-030V	
200	TK300-60	TK300-60	XPS-030V	XPS-030V	
250	TK300-60	TK300-90	XPS-030V	XPS-040V	
300	TK300-90	XPS-030V	XPS-030V	XPS-040V	
350	XPS-030V	XPS-030V	XPS-040V	XPS-060V	
400	XPS-030V	XPS-040V	XPS-040V	XPS-060V	

Residential Expansion Tank Kits

Boiler Trim Kit with SuperVent



Honeywell TK Series Combo Boiler Trim kits are a quick and convenient way to purchase the key "boiler trim" used by installers when performing a boiler change out. All Combo Trim Kits with SuperVent include expansion tank and SuperVent high performance air eliminator; selected models also include FM911 combination boiler fill valve/backflow preventer and/or service check valves for in-line servicing of the expansion tank.

Maximum Operating Temperature: 240 F (115 C)
Maximum Operating Pressure: 100 psi (689 kPa)
Diameter: 11 in. (279 mm)
Maximum Acceptance Volume: 2.5 gal. (9.5 L)

Product Number	Connection Size (inch)	Connection Type	Height		Volume		Weight		Includes
			(inch)	(mm)	(gal)	(L)	(lb)	(kg)	
TK30PV100FM	SuperVent: 1 in. Tank: 1/2 in.	SuperVent: Female NPT Tank: Male NPT	15 1/2 in.	394 mm	4.4 gal	16.7 L	16 lb	7.3 kg	TK300-30, PV100, SCV-050, FM911
TK30PV100FMNC	SuperVent: 1 in. Tank: 1/2 in.	SuperVent: Female NPT Tank: Male NPT	15 1/2 in.	394 mm	4.4 gal	16.7 L	16 lb	7.3 kg	TK300-30, PV100, FM911
TK30PV100SFM	SuperVent: 1 in. Tank: 1/2 in.	SuperVent: Sweat Tank: Male NPT	15 1/2 in.	394 mm	4.4 gal	16.7 L	16 lb	7.3 kg	TK300-30, PV100S, SCV-050, FM911
TK30PV125	SuperVent: 1 1/4 in. Tank: 1/2 in.	SuperVent: Female NPT Tank: Male NPT	15 1/2 in.	394 mm	4.4 gal	16.7 L	12.8 lb	5.8 kg	TK300-30, PV125, SCV-050
TK30PV125FM	SuperVent: 1 1/4 in. Tank: 1/2 in.	SuperVent: Female NPT Tank: Male NPT	15 1/2 in.	394 mm	4.4 gal	16.7 L	16.8 lb	7.6 kg	TK300-30, PV125, SCV-050, FM911
TK30PV125FMNC	SuperVent: 1 1/4 in. Tank: 1/2 in.	SuperVent: Female NPT Tank: Male NPT	15 1/2 in.	394 mm	4.4 gal	16.7 L	16.8 lb	7.6 kg	TK300-30, PV125, FM911
TK30PV125SFM	SuperVent: 1 1/4 in. Tank: 1/2 in.	SuperVent: Sweat Tank: Male NPT	15 1/2 in.	394 mm	4.4 gal	16.7 L	16.8 lb	7.6 kg	TK300-30, PV125S, SCV-050, FM911
TK60PV100SFMNC	SuperVent: 1 1/4 in. Tank: 1/2 in.	SuperVent: Female NPT Tank: Male NPT	23 in.	584 mm	4.4 gal	16.7 L	15.3 lb	6.9 kg	TK300-60, PV100S, FM911
TK60PV125FMNC	SuperVent: 1 1/4 in. Tank: 1/2 in.	SuperVent: Female NPT Tank: Male NPT	23 in.	584 mm	7.6 gal	28.8 L	17.5 lb	7.95 kg	TK300-60, PV125, FM911
TK60PV125SFMNC	SuperVent: 1 1/4 in. Tank: 1/2 in.	SuperVent: Sweat Tank: Male NPT	23 in.	584 mm	7.6 gal	28.8 L	17.5 lb	7.95 kg	TK300-60, PV125S, FM911

Residential Expansion Tank Kits

Boiler Trim Kit with Air Purger



Honeywell TK Series Boiler Trim kits are a quick and convenient way to purchase the key "boiler trim" used by installers when performing a boiler change out. All Trim Kits with Purgers include expansion tank, air purger and air vent; selected models also include FM911 combination boiler fill valve/backflow preventer and/or service check valves for in-line servicing of the expansion tank and air vent.

Maximum Operating Temperature: 240 F (115 C)
Maximum Operating Pressure: 100 psi (689 kPa)
Diameter: 11 in. (279 mm)
Maximum Acceptance Volume: 2.5 gal. (9.5 L)

Product Number	Connection Size (inch)	Connection Type	Height		Volume		Weight		Includes
			(inch)	(mm)	(gal)	(L)	(lb)	(kg)	
TK300-30A-1	Air Purger: 1 in. Tank: 1/2 in.	Tank: Male NPT Air Purger: Female NPT	15 1/2 in.	394 mm	4.4 gal	16.7 L	13 lb	5.9 kg	TK300-30, AP400, FV180, SCV-0125, SCV-050
TK300-30A-1FM	Air Purger: 1 in. Tank: 1/2 in.	Tank: Male NPT Air Purger: Female NPT	15 1/2 in.	394 mm	4.4 gal	16.7 L	16.6 lb	7.5 kg	TK300-30, AP400, FV180, SCV-0125, SCV-050, FM911
TK300-30A-1FMNC	Air Purger: 1 in. Tank: 1/2 in.	Tank: Male NPT Air Purger: Female NPT	15 1/2 in.	394 mm	4.4 gal	16.7 L	16.6 lb	7.5 kg	TK300-30, AP400, FV180, FM911
TK300-30A-2	Air Purger: 1 1/4 in. Tank: 1/2 in.	Tank: Male NPT Air Purger: Female NPT	15 1/2 in.	394 mm	4.4 gal	16.7 L	13 lb	5.9 kg	TK300-30, AP401, FV180, SCV-0125, SCV-050
TK300-30A-2FM	Air Purger: 1 1/4 in. Tank: 1/2 in.	Tank: Male NPT Air Purger: Female NPT	15 1/2 in.	394 mm	4.4 gal	16.7 L	16.6 lb	7.5 kg	TK300-30, AP401, FV180, SCV-0125, SCV-050, FM911
TK300-30A-2FMNC	Air Purger: 1 1/4 in. Tank: 1/2 in.	Tank: Male NPT Air Purger: Female NPT	15 1/2 in.	394 mm	4.4 gal	16.7 L	16.6 lb	7.5 kg	TK300-30, AP401, FV180, FM911

Hydronic Controls