Model WXTP
Water Thermal Expansion Tanks

Wilkins WXTP-75W

WILKINS
a ZURN company

❑ Installation ❑ Maintenance Instructions

SPECIFICATION
Fill pressure (and air charge pressure).....40 PSI
Max. Operating Pressure..... 150 PSI

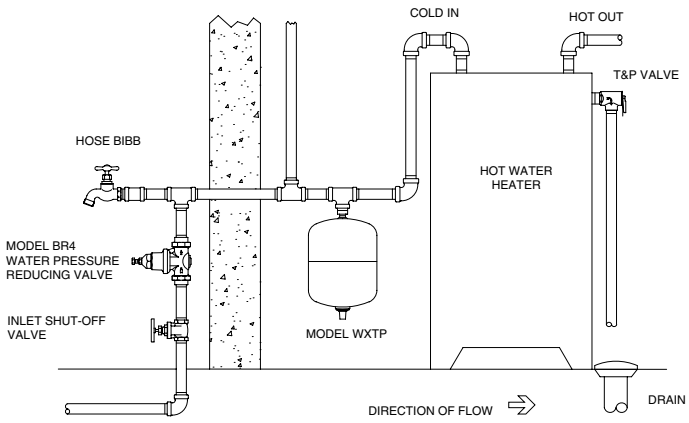
For potable water applications

To obtain maximum effectiveness and to prolong WXTP series tank life ADJUST TANK PRECHARGE TO EQUAL LINE PRESSURE, NOT TO EXCEED 80 PSI.
Example:
If normal city water pressure at tank location is 55 psig, increase air precharge in WXTP tank to 55 psig. This can be done with a bicycle pump or air compressor. Pressure can be checked with a standard tire gauge.

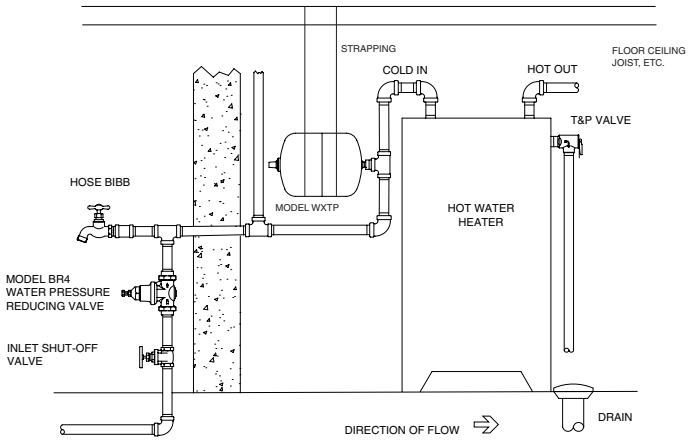
INSTALLATION
1. Shut off power or gas to water heater.
2. Shut off cold water supply to water heater.
3. Drain water from heater (MAKE SURE THAT A FAUCET OR OTHER FIXTURE IS OPEN TO PREVENT VACUUM BUILD UP).
4. With water completely drained from water heater, install WXTP Series Thermal Expansion Tank by teeing into a cold water supply as shown. WXTP tank must be installed on the cold water supply and between water heater and check valve, backflow preventer, etc.
5. Strapping or bracing must be used when tank is installed in the horizontal position. This will allow support of the tank when filled with water.

MAINTENANCE
The tank precharge should be checked annually. The water pressure must be removed from the tank to prevent a false reading.
1. Shutoff water supply.
2. Open a faucet to remove pressure from the system
3. Check tank pressure with a tire gauge. Add air to tank if it doesn't match the incoming water pressure. If the tank pressure is zero or if water disharges from the air valve, then it should be replaced.
4. Turn water supply back on.

Certified to ANSI/NSF 61



MODEL WXTP INSTALLATION



MODEL WXTP HORIZONTAL INSTALLATION

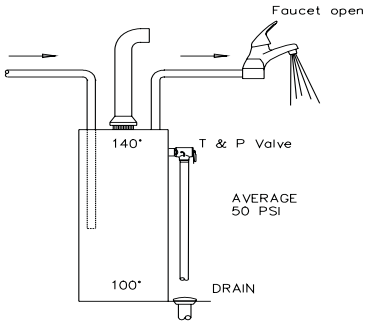
NOTE: Model WXTP tanks are certified to NSF Standard 61 cold, but are suitable for temperatures up to 200° F.

TANK SPECIFICATIONS

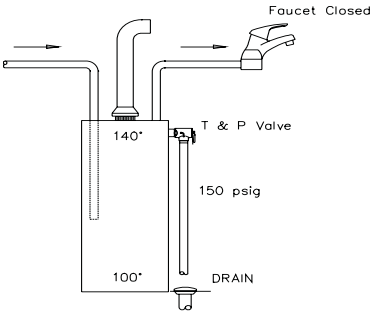
MODEL NUMBER	MAXIMUM WORKING PRESSURE	TOTAL VOLUME GALLONS	ACCEPTANCE VOLUME	FACTORY PRECHARGE (PSI)	DIMENSIONS				SYSTEM CONNECTION	WEIGHT	
					DIAMETER		HEIGHT				
					in.	mm	in.	mm		lbs.	kg
WXTP-8	150 PSIG	2.1	0.84	40	8 1/2	216	11 1/2	292	3/4" MNPT	7	3.2
WXTP-18	150 PSIG	4.5	1.8	40	10	254	15	381	3/4" MNPT	10	4.5
WXTP-32	150 PSIG	8.5	3.4	40	12 1/2	318	19 3/16	487	3/4" MNPT	15	6.8
WXTP-50V	150 PSIG	14	5.6	40	16	406	21 11/16	551	1" FNPT	32	14.5
WXTP-75V	150 PSIG	20	8.0	40	16	406	28 13/16	732	1" FNPT	39	17.7
WXTP-120V	150 PSIG	32	12.8	40	21	533	27 13/16	706	1" FNPT	60	27.2
WXTP-165V	150 PSIG	44	17.6	40	21	533	36 3/16	919	1 1/4" FNPT	72	32.7
WXTP-320V	150 PSIG	85	34.0	40	26	660	44 7/16	1129	1 1/4" FNPT	140	63.4
NOTE: RELIEF VALVE MUST BE SET AT 150 PSIG MAXIMUM											

OPERATION

With faucet open expanded water is released as it is generated.

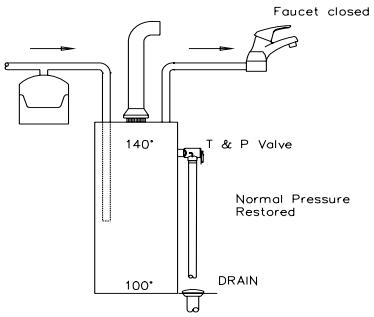


No problem with expansion
No pressure build-up



With faucets closed, as in the evening, pressure builds almost instantly until the safety relief valve spills hot water then the cycle repeats itself.

Hot water under high pressure 150 psig
Stress on water heater and components
Wasted BTU's



With a Wilkins WXTP Series Thermal Expansion Tank installed between the check valve and the water heater, pressures are controlled and system is restored to a safe and proper working condition.

Expanded water is absorbed by Wilkins Tank
Pressure is controlled
Relief valve is not called upon to operate

SIZING CHART

Supply	WATER HEATER CAPACITY (U.S. gal)										
Pressure (psig)	20	30	40	50	60	80	100	120	150	175	200
40	**8**	**8**	**8**	**8**	**8**	**18**	**18**	**18**	**32**	**32**	**32**
50	**8**	**8**	**8**	**8**	**8**	**18**	**18**	**18**	**32**	**32**	**32**
55	**8**	**8**	**8**	**8**	**8**	**18**	**18**	**18**	**32**	**32**	**32**
60	**8**	**8**	**8**	**8**	**18**	**18**	**18**	**18**	**32**	**32**	**32**
70	**8**	**8**	**8**	**8**	**18**	**18**	**18**	**18**	**32**	**32**	**32**
80	**8**	**8**	**8**	**8**	**18**	**18**	**18**	**32**	**32**	**32**	**32**
90	**8**	**8**	**8**	**18**	**18**	**18**	**32**	**32**	**32**	**50V**	**50V**
100	**8**	**8**	**18**	**18**	**18**	**32**	**32**	**32**	**50V**	**50V**	**50V**
110	**8**	**18**	**18**	**18**	**32**	**32**	**32**	**50V**	**50V**	**75V**	**75V**
120	**18**	**18**	**32**	**32**	**32**	**50V**	**50V**	**50V**	**120V**	**120V**	**120V**
Supply	WATER HEATER CAPACITY (U.S. gal)										
Pressure (psig)	240	260	280	300	350	400	450	500	600	800	1000
40	**50V**	**50V**	**50V**	**50V**	**50V**	**75V**	**75V**	**75V**	**120V**	**120V**	**165V**
50	**50V**	**50V**	**50V**	**50V**	**50V**	**75V**	**75V**	**75V**	**120V**	**120V**	**165V**
55	**50V**	**50V**	**50V**	**50V**	**50V**	**75V**	**75V**	**75V**	**120V**	**120V**	**165V**
60	**50V**	**50V**	**50V**	**50V**	**50V**	**75V**	**75V**	**75V**	**120V**	**120V**	**165V**
70	**50V**	**50V**	**50V**	**50V**	**50V**	**75V**	**75V**	**75V**	**120V**	**120V**	**165V**
80	**50V**	**50V**	**50V**	**50V**	**75V**	**75V**	**75V**	**120V**	**120V**	**165V**	**165V**
90	**50V**	**50V**	**50V**	**75V**	**75V**	**75V**	**120V**	**120V**	**120V**	**165V**	**320V**
100	**75V**	**75V**	**75V**	**75V**	**120V**	**120V**	**120V**	**165V**	**165V**	**320V**	**320V**
110	**120V**	**120V**	**120V**	**120V**	**120V**	**165V**	**165V**	**320V**	**320V**	**320V**	**X**
120	**165V**	**165V**	**165V**	**320V**	**320V**	**320V**	**320V**	**320V**	**X**	**X**	**X**

Based upon 100° F temperature rise (40° F to 140° F) X=multiple tanks required (contact your WILKINS Rep)

WARRANTY: WILKINS Valves are guaranteed against defects of material or workmanship when used for the services recommended. If in any recommended service, a defect develops due to material or workmanship, and the device is returned, freight prepaid, to WILKINS within 5 years from date of purchase, it will be repaired or replaced free of charge. WILKINS' liability shall be limited to our agreement to repair or replace the valve only.

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1747 Commerce Way, Paso Robles, CA 93446 Phone:805/238-7100 Fax:805/238-5766