

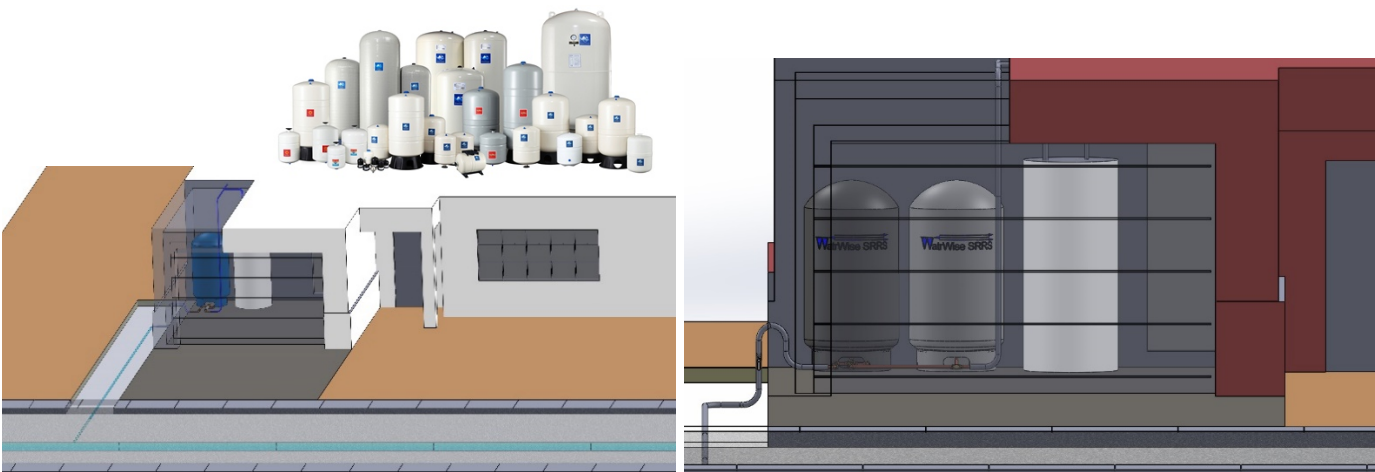
# Pressurized Emergency Water - No Pump or Electricity Required!



Solving a World of Water Supply Challenges Everywhere!



WatrWise™ develops innovative water storage systems for your home. Utilizing patented and patent-pending technology that automatically refreshes stored water reserved for you to use during water service or supply interruptions; supplying fresh *pressurized* water throughout your home.



Pressure tanks are made in many sizes and can be combined into manifolds of two or more pressure tanks to store more water; water reserved for use during an emergency. The tanks are automatically cycled to ensure a fresh water supply. Hurrying to the store to buy bottled water when water service is interrupted is not needed when you have *pressurized* emergency water conveniently stored at home ready for use; no buckets or bottles necessary! *Pressurized* water is available throughout your home.

WatrWise™ Emergency Water Storage (EWS) is installed within your home's existing pressurized water supply system and water flow throughout your home during every day operation is unchanged. A patent pending invention; prevents stagnation by cycling water stored in the pressure tank(s). WatrWise™ EWS does not require a pump or power to operate.

When WatrWise™ EWS is connected to a municipal water supply the incoming water is already treated for removal of suspended solids, bacteria, algae, viruses, fungi, and minerals and maintains the integrity of the already treated water supply. The water used needs no additional purification or treatment to be safe for drinking and sanitation.

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WatrWise™ EWS can also be installed on rural water supply systems and private wells. When connected to a private well or rural water supply, the water is regularly cycled through the pressure tank(s), reducing incidence of stagnation. WatrWise™ EWS is not intended to be a water purification or treatment system.

The patent-pending water storage system incorporated into WatrWise™ EWS allows for operation as part of the existing water piping network in your home and has a check valve used to automatically prevent water flowing back into the water supply should water supply fail to supply water; reserving stored water for use in your home; also a valve is installed that can be turned off to isolate your home from the water supply during water service or supply interruptions; and to also protect stored water from a contaminated water supply that may continue to supply water to your home; water supply damaged during a catastrophes caused by weather – hurricane, blizzard, flooding etc.- and also damage caused by fire, earthquake, tsunami, volcanic eruptions and terrorist attack. Under normal, everyday operating conditions (non-emergency) the flow of water is enabled under pressure from the existing water supply.

WatrWise™ EWS utilizes hydro-pneumatic or captive air pressure tanks to store water. In previous emergency water storage designs, water storage was limited to either a non-pressurized tank that does not have the ability to store water under pressure; or the design used a tank that stores water under pressure, but cannot supply pressurized water during an emergency or during water service or supply interruptions, without a pump; requiring electricity (that may not be available during an emergency). Storage tanks of this type act like a large pipe only allowing water to flow-through them to prevent stagnation; when the water supply is interrupted pressure and flow into your home is interrupted. Tanks of this type require you to drain the tank into a container (bucket or bottle etc.) through a hose bib or valve.

“ WatrWise™ EWS relates to water supply demand challenges related to available water reserves caused by seasonal and diurnal peak water demand, emergency water demand such as firefighting efforts and service or supply interruptions for municipal or rural water systems, while also reducing incidence of stagnation in connected pressure tank(s); and more particularly to a water storage apparatus that uses one cycle valve, at least one pressure tank and at least one check valve connected to water service lines that are connected to water mainlines that are connected to municipal or rural water systems. This method and apparatus can reduce water system peak demand challenges and automatically cycle or draw down pressure tanks; while storing regularly refreshed water for use by the water user or customer during service or supply interruptions, commonly called emergency water storage.”



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Pressure Tank Drawdown Capacity Example (may vary by manufacturer)

Total Volume (Gals.)	Drawdown in Gals. at System Operating Pressure Range of			Max. Drawdown Vol. (Gals.)	Pre-Charge PSI	System Connection	Dimensions	
	20/40 PSIG	30/50 PSIG	40/60 PSIG				Diameter	Height
13.9	5.1	4.3	3.7	8.4	38	1" NPTF	15 <sup>3</sup> / <sub>8</sub>	24 <sup>15</sup> / <sub>16</sub>
19.9	7.3	6.1	5.3	12.1	38	1" NPTF	15 <sup>3</sup> / <sub>8</sub>	32 <sup>3</sup> / <sub>8</sub>
25.9	8.9	7.7	6.7	13.9	38	1" NPTF	15 <sup>3</sup> / <sub>8</sub>	39 <sup>9</sup> / <sub>16</sub>
25.9	8.9	7.7	6.7	13.9	38	1" NPTF	15 <sup>3</sup> / <sub>8</sub>	42 <sup>5</sup> / <sub>8</sub>
31.8	11.8	9.9	8.6	13.8	38	1" NPTF	15 <sup>3</sup> / <sub>8</sub>	47 <sup>1</sup> / <sub>4</sub>
31.8	11.8	9.9	8.6	13.8	38	1" NPTF	22	28
45.2	16.5	13.9	12.1	27.3	38	1 <sup>1</sup> / <sub>4</sub> " NPTF	22	36 <sup>9</sup> / <sub>16</sub>
65.1	23.9	20.0	17.4	39.3	38	1 <sup>1</sup> / <sub>4</sub> " NPTF	22	48 <sup>5</sup> / <sub>8</sub>
83.5	30.9	25.9	22.5	50.8	38	1 <sup>1</sup> / <sub>4</sub> " NPTF	26	46
84.9	31.2	26.2	22.8	44.7	38	1 <sup>1</sup> / <sub>4</sub> " NPTF	22	60 <sup>11</sup> / <sub>16</sub>
115.9	42.9	35.9	31.3	70.5	38	1 <sup>1</sup> / <sub>4</sub> " NPTF	26	61 <sup>5</sup> / <sub>16</sub>
13.9	5.1	4.3	3.7	8.4	38	1" NPTM	15 <sup>3</sup> / <sub>8</sub>	21 <sup>1</sup> / <sub>16</sub>
19.9	7.3	6.1	5.3	12.1	38	1" NPTM	15 <sup>3</sup> / <sub>8</sub>	28 <sup>1</sup> / <sub>2</sub>
45.2	16.5	13.9	12.1	27.3	38	1 <sup>1</sup> / <sub>4</sub> " NPTM	22	32 <sup>3</sup> / <sub>16</sub>
65.1	23.9	20.0	17.4	39.3	38	1 <sup>1</sup> / <sub>4</sub> " NPTM	22	44 <sup>1</sup> / <sub>4</sub>
2.0	0.7	0.6	0.5	1.2	38	<sup>3</sup> / <sub>4</sub> " NPTM	8	11 <sup>15</sup> / <sub>16</sub>
4.5	1.7	1.4	1.2	2.7	38	<sup>3</sup> / <sub>4</sub> " NPTM	11	13 <sup>15</sup> / <sub>16</sub>
8.2	3.1	2.6	2.2	4.5	38	<sup>3</sup> / <sub>4</sub> " NPTM	11	23 <sup>1</sup> / <sub>16</sub>
13.9	5.1	4.3	3.7	8.4	38	1" NPTM	15 <sup>3</sup> / <sub>8</sub>	21 <sup>1</sup> / <sub>16</sub>
8.2	3.1	2.6	2.2	4.5	38	<sup>3</sup> / <sub>4</sub> " NPTM	11	24 <sup>9</sup> / <sub>16</sub>
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