

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY BEFORE INSTALLATION. FOR USE ONLY WITH POTABLE WATER

INSTALLER: LEAVE THIS MANUAL WITH THE OWNER



THIS IS THE SAFETY ALERT SYMBOL. IT IS USED TO ALERT YOU TO POTENTIAL PERSONAL INJURY AND OTHER HAZARDS. OBEY ALL SAFETY MESSAGES THAT FOLLOW THIS SYMBOL TO REDUCE THE RISK OF PERSONAL INJURY AS WELL AS PROPERTY DAMAGE.

WARNING READ CAREFULLY THE PRODUCT INSTALLATION, OPERATING AND MAINTENANCE MANUAL. FAILURE TO FOLLOW THE INSTRUCTIONS AND WARNINGS IN THE MANUAL MAY RESULT IN SERIOUS OR FATAL INJURY AND/OR PROPERTY DAMAGE, AND WILL VOID THE PRODUCT WARRANTY. THIS PRODUCT MUST BE INSTALLED BY A QUALIFIED PROFESSIONAL. FOLLOW ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS, IN THE ABSENCE OF SUCH CODES, FOLLOW THE CURRENT EDITIONS OF THE NATIONAL PLUMBING CODE AND NATIONAL ELECTRIC CODE, AS APPLICABLE.

WARNING This Product, like most Products under pressure, may over time corrode, weaken and burst or explode, causing serious or fatal injury, leaking or flooding and/or property damage. To minimize risk, a licensed professional must install and periodically inspect and service the Product. A drip pan connected to an adequate drain must be installed if leaking or flooding could cause property damage. Do not locate in an area where leaking could cause property damage to the area adjacent to the appliance or to lower floors of the structure.

WARNING **RUPTURE OR EXPLOSION HAZARD** A relief valve must be installed to prevent pressure in excess of local code requirement or maximum working pressure designated in the Product Manual, whichever is less. Do not expose Product to freezing temperatures or temperatures in excess of 200° F. Do not adjust the pre-charge or re-pressure this Product except for any adjustments required at the time of initial installation, especially if Product is corroded, damaged or with diminished integrity. Adjustments to pre-charge must be done at ambient temperature only. Failure to properly size the Product or follow these instructions may result in excessive strain on the system lead to Product failure, serious or fatal personal injury, leakage and/or property damage.

WARNING **Chlorine & Aggressive Water:** The water quality can significantly influence the life of this Product. You should test for corrosive elements, acidity, total solids and other relevant contaminants, including chlorine and treat your water appropriately to insure satisfactory performance and prevent premature failure.

Note: Inspect for shipping damage and notify freight carrier or store where purchased immediately if damage present. To avoid risk of personal injury and property damage, if the product appears to be malfunctioning or shows signs of corrosion, call a qualified professional immediately. Current copies of the Product manual can be viewed at www.amtrol.com. Use proper safety equipment when installing.

WARNING Use only with potable water system. Do not operate in a setting with freezing temperatures or where the temperature can exceed 200°F and do not exceed the maximum working pressure specified for this Product.

WARNING **CALIFORNIA PROPOSITION 65 WARNING!** This product contains a chemical known by the State of California to cause cancer and to cause birth defects or other reproductive harm. (California Installer/Contractor - California law requires that this notice be given to consumer/end user of this product.) For more information: www.amtrol.com/prop65.htm

WARNING **EXPLOSION OR RUPTURE HAZARD!** A relief valve must be installed to prevent pressure in excess of local code requirement or maximum working pressure designated in the Product Manual, whichever is less. At least once every 3 years or if discharge is present, a licensed contractor should inspect the temperature and pressure relief valve and replace if corrosion is evident or the valve does not function. **FAILURE TO INSPECT THIS VALVE AS DIRECTED COULD RESULT IN UNSAFE TEMPERATURE OR PRESSURE BUILD-UP WHICH CAN RESULT IN PRODUCT FAILURE, SERIOUS INJURY OR DEATH AND/OR SEVERE PROPERTY DAMAGE AND VOID THE PRODUCT WARRANTY.**

PRE-INSTALLATION

1. Ensure expansion tank is sized properly for application (see Figure 1).
2. Remove plastic cap from air valve.
3. With tank empty of water, adjust air precharge to match cold water supply pressure.
4. Replace and tighten plastic cap on air valve.

WARNING FAILURE TO PROPERLY SEAL VALVE CAP WILL RESULT IN LOSS OF PRECHARGE CAUSING PRODUCT TO FAIL.

Figure 1.

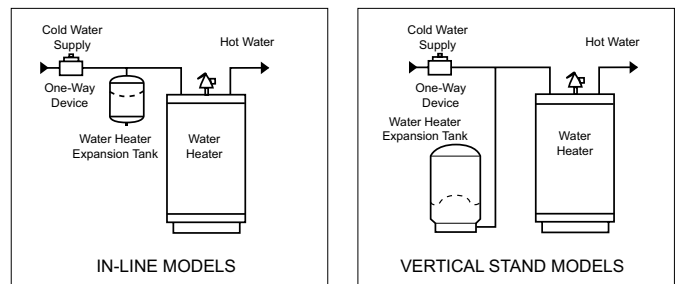
Expansion Tank Volume (Gal) Max. Temp. Setting 150°F				Expansion Tank Volume (Gal) Max. Temp. Setting 180°F			
Water Heater Size (gals.)	Static Supply Pressure (psi)			Water Heater Size (gals.)	Static Supply Pressure (psi)		
	40	60	80		40	60	80
40	2.0	2.0	2.0	40	3.2	3.2	3.2
50	2.0	2.0	3.2	50	3.2	3.2	4.4
60	3.2	3.2	3.2	60	3.2	4.4	10.3
80	3.2	3.2	4.4	80	4.4	10.3	10.3
120	4.4	4.4	10.3	120	10.3	10.3	10.3

For system volumes over 120 gallons, visit www.amtrol.com or see product catalog.

INSTALLATION

1. Install the expansion tank on the cold water supply line to the water heater at a point between the water heater and backflow preventer or other one-way device (see Figure 2.)
2. Once the expansion tank is installed, check the cold water supply line for any leakage. Make repairs if necessary.
3. Before the initial firing of the water heater, open any hot water fixture and draw water until all air is removed from the system. Turn the water heater temperature control to desired ending temperature level, (see water heater instructions). Do not set temperature higher than that which the expansion tank was originally sized.
4. To relieve initial thermal expansion, slightly open a hot water faucet. Continue until water heater aquastat temperature is satisfied. Once heater is at its operating range, no further bleeding of expanded water is required.

Figure 2.



5. The water heater and expansion tank will now be operational. The expansion tank will control pressure increases caused by thermal expansion to a level below the water heater relief valve setting.

MAINTENANCE

A professional plumber should check the complete system, including the expansion tank, yearly and more frequently as the system ages.

MAINLINE® reserves the right to make product and material changes at any time without notice.



WARRANTY INFORMATION

Mainline products will be covered by the Manufacturer's limited warranty. It is as follows:

LIMITED PRODUCT WARRANTY

Products Covered: All Products in the manual.

This warranty cannot be transferred – it is extended only to the original Purchaser or First User of the Product. By accepting and keeping this Product you agree to all of the warranty terms and limitations of liability described below.

IMPORTANT WARNING - READ CAREFULLY THE INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS MANUAL ("MANUAL") to avoid serious personal injury and/or property damage and to ensure safe use and proper care of this product.

Who Receives Product Warranty

All purchasers or first users of the new Product. The Warranty is non-transferable.

What Is Covered By This Warranty

Manufacturer warrants to the purchaser or first user of the new Product that at the time of manufacture, the Product is free from defects in material and workmanship.

Any warranty claim must be made within one (1) year unless another time period is set forth in the Manual, measured from the time the Product was purchased.

What Manufacturer Will Do If You Have a Covered Warranty Claim

In the event of a breach of the foregoing warranty, Manufacturer will at its option either make repairs to correct any defect in material or workmanship or supply and ship either new or used replacement parts or products. Manufacturer will not accept any claims for labor, **property damage** or other costs.

What This Warranty Does Not Cover - Exclusions and Limitations

This Warranty does not cover any claim unless it was caused by a defect in material or workmanship during the **warranty period**. In addition, this Warranty shall not apply:

- if the Product is not correctly installed, operated, repaired or maintained as described in the Manual provided with the Product;
- to any failure or malfunction resulting from abuse (including freezing), improper or negligent handling, shipping (by anyone other than Manufacturer), storage, use, operation, accident, or alteration, lightning, flood or any other environmental condition;
- to any failure or problem resulting from the use of the Product for any purpose other than those specified in the accompanying Manual or alteration of any part of the product;
- this Warranty does not cover labor costs, shipping charges, service charges, delivery expenses, administrative fees or any costs incurred in removing or reinstalling the Product;
- this Warranty does not cover any claims submitted to Manufacturer or a Manufacturer -authorized distributor or retailer more than 30 days after expiration of the applicable warranty time period described in this Warranty;

- this Warranty also does not cover repair or replacement costs not authorized in advance by Manufacturer

THESE WARRANTIES ARE GIVEN IN LIEU OF ALL OTHER EXPRESS WARRANTIES. NO MANUFACTURER REPRESENTATIVE OR ANY OTHER PARTY IS AUTHORIZED TO MAKE ANY WARRANTY OTHER THAN THOSE EXPRESSLY CONTAINED IN THIS WARRANTY AGREEMENT.

Additional Warranty Limitations

ALL IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY DISCLAIMED. Some states do not allow limitations on how long an implied Warranty lasts, so the above limitation may not apply to you.

Limitations of Remedies

THE REMEDIES CONTAINED IN THIS WARRANTY ARE THE PURCHASER'S OR FIRST USER'S EXCLUSIVE REMEDIES. IN NO CIRCUMSTANCES WILL MANUFACTURER BE LIABLE FOR MORE THAN, AND PURCHASER/FIRST USER'S REMEDIES SHALL NOT EXCEED, THE PRICE PAID FOR THE PRODUCT. IN NO CASE SHALL MANUFACTURER BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM NONDELIVERY OR FROM THE USE, MISUSE, OR INABILITY TO USE THE PRODUCT OR FROM DEFECTS IN THE PRODUCT OR FROM MANUFACTURER'S OWN NEGLIGENCE OR OTHER TORT. This exclusion applies regardless of whether such damages are sought for breach of warranty, breach of contract, negligence, strict liability, in tort or under any other legal theory. Such damages include, but are not limited to, inconvenience, loss or damage to property, mold, loss of profits, loss of savings or revenue, loss of use of the Products or any associated equipment, facilities, buildings or services, downtime, and the claims of third parties including customers. Some states do not allow the limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

What To Do If You Have a Problem Covered By This Warranty

Any covered Warranty service must be authorized by Manufacturer. Contact the person from whom you purchased the Product, who must receive authorization from a Manufacturer distributor or Manufacturer. If you do not receive a prompt response, call AMTROL directly at 877-517-9673. Notice of a Warranty claim should be submitted by the authorized distributor to Manufacturer at the following address:

AMTROL Inc., Warranty Claim Dept.
1400 Division Road, West Warwick, RI 02893

Before Manufacturer determines to provide any replacement part or Product, it may as a pre-condition to making such a determination require that the warranty claimant ship the Product, postage prepaid to an authorized Manufacturer distributor, or to Manufacturer and provide proof of purchase evidenced by the original sales receipt or Product registration.

Replacement Product Warranty

In case of replacement of a Product or any component part, Manufacturer reserves the right to make changes in the design, construction, or material of the substitute components or products, which shall be subject to all of the terms and limitations of this Warranty, except that the applicable warranty periods shall be reduced by the amount of time the warranty claimant owned the product prior to submitting notification of the warranty claim.

PRODUCT**MODELS****DURATION (from date of purchase)****Well Tanks**

Model	Duration (Years)
MLWI2	5
MLWI4	5
MLWI8	5
MLWI14	5
MLWF14	5
MLWF20	5
MLWF26	5
MLWF32	5
MLWF34	5
MLWF44	5
MLWF62	5
MLWF81	5
MLWF119	5
MLWF86	5

Hydronic Expansion Tanks

Model	Duration (Years)
MLEX15	5
MLEX30	5
MLEX60	5
MLEX90	5
MLSX30V	1
MLSX40V	1
MLSX60V	1

Thermal Expansion Tanks

Model	Duration (Years)
MLST5	5
MLST12	5
MLT5	1
MLT12	1
MLST25V	5
MLST30V	1
MLST42V	1
MLST60V	1

Control

Model	Duration (Years)
MLDC2	2