



## Natural Action Technologies® Structured Water Units

### Installation Instructions for Whole House (Super Size) and Commercial Size Units

This Unit needs to be installed by a qualified person and in accordance with AS 3500.1 any place after the water meter.

**We recommend flushing your water heater before installation by following your manufactures guidelines.**

#### For NPT Connectors (National Pipe Thread)

1. Locate the main water shut off before starting. This unit can be mounted in any position, with the water entering from either end. Locate the valve that controls the water source and turn it off.
2. Open the cold water faucet located at the lowest point in the plumbing system of the house. Leave open until water stops flowing to insure water is completely turned off and to relieve pressure.
3. The unit, as shipped, may be installed easily on any 1" or smaller pipe. Fittings will be supplied by your plumber/installer with connectors of their choice. Installation will be in accordance with the type of connections chosen.
4. Hold the unit in place where the water pipeline is to be removed to insure there is enough space available.
5. Cut the water pipe to the length determined. NOTE: Residual water may be present in the line. A bucket and rag on hand is recommended.
6. Retain and store removed pipe for future use as a bypass in case unit is removed at a later date.
7. Install the unit with the connectors chosen (by the plumber/installer)
8. Turn on the water supply line and check for leaks in the system.
9. Turn on a nearby water faucet to purge air out of water line until it runs smoothly and all the burping has stopped. Then turn off the faucet.

#### For Galvanized Pipes

1. Examine pipeline. Be sure that there are no scratches, gouges or any form of damage on the outside or inside of the water pipeline for 2' next to the cut end. Damage in this area may cause leakage.
2. Slide the compression nuts down the pipeline about 5-6 inches with the threaded ends facing the cut off pipe. These will be screwed in later. Slide the compression nuts down the 5-6 inches with the threaded ends facing the cut off pipe. These will be screwed in later.
3. Moisten the inside of the rubber seal with water and push it onto the end of the cut pipe. (You may use the flat end of the compression union to push the rubber seal on evenly.) Push the rubber seal 2-4 inches away from the cut end of the pipe. (This can be adjusted later as long as it is within that range.)
4. Slide the longest part of the union onto each end of the pipe and lightly screw it into the nut.
5. Place the house unit between the compression unions. Slide the union up to the unit. Hand tighten the unions one at a time. (Do not over tighten.) When all the pieces are screwed together, hand tighten all 4 nuts. Follow Step 8 above.

#### For Copper, PEX and CPVC Pipes

1. Measure the length of the unit from end to end. Write the measurement down. Now subtract 2" from the measurement. The resulting number will be the pipe length to cut and remove from the pipeline. (i.e. Measurement minus 2" = pipe length to be cut out.)
2. Measure and mark the pipeline to be removed.
3. Hold the unit in place where the water pipeline is to be removed to insure enough space is available.
4. Cut the water pipeline to length determined in step 1. Retain and store for future use as a bypass in case the water unit is removed at a later date.
5. Examine pipeline to be sure there are no scratches, gouges or any form of damage on the inside or outside of pipeline for 2" next to the cut end. Damage in this area may cause leakage and rough edges may result in difficulty inserting the Sharkbite.
6. Once the pipe/tubing is cleaned and lined up, measure 1" and mark the insert depth on the outside of pipe/tubing.
7. Examine House Unit fittings. Unscrew the union connectors from the unit, checking for any foreign objects or damage. Ensure the rubber "O" rings are present on both ends of the union connectors.
8. Slide the threaded PVC nut (unthreaded side first) onto the water pipeline 6" to 8" inwards.
9. Push the Push-fit fittings onto the ends of the cut pipe/tube. (NOTE: Fittings will grip before it seals) Ensure that pipe/tubing is pushed into the fittings until the end is fully seated into the internal tube stop, up to the mark made in Step 6. Place the House Unit between the union connectors and hand tighten the unions. Follow Step 8 under NPT instructions to complete.

## For PVC Pipe

1. Measure the length of the unit from end to end. Write the measurement down. Now subtract 2" from the measurement. The resulting number will be the pipe length to cut and remove from the pipeline. (i.e. Measurement minus 2" = pipe length to be cut out.)
2. Measure and mark the pipeline to be removed.
3. Hold the unit in place where the water pipeline is to be removed to insure enough space is available.
4. Cut the water pipeline to length determined in step 1. Retain and store for future use as a bypass in case the water unit is removed at a later date. Examine pipeline to be sure there are no scratches, gouges or any form of damage on the inside or outside of pipeline for 2" next to the cut end.
5. Unscrew the threaded PVC nut from the ends of the unit. Two pieces will separate from each side. Ensure that the black "O" ring stays in place. Unit will leak if "O" rings are missing.
6. Slide the PVC nut (unthreaded side first) onto the water pipeline (about 6 inches) This will keep the nut out of the way while you are gluing.
7. Apply PVC glue to the outside of your water pipeline (Approx. 1") Use 2 revolutions of glue around the pipe to make sure it spreads evenly.
8. Next apply glue to the inside of the union sleeve, 2 revolutions as stated above.
9. Push the union sleeve onto the PVC pipe, using a rotation motion, ¼ to 1/2 turn. Be sure the sleeve is pushed all the way onto the pipe, holding in place for a few seconds to prevent pushback. Glue should dry in 1 minute.
10. Repeat steps 6-9 to prepare the other side of the PVC pipeline.
11. Place the unit between the freshly glued union sleeves.
12. Slide the PVC nuts up to the unit and hand tighten the threaded nuts of the unions onto the threaded ends of the unit, one side at a time. Tighten firmly.
13. Allow 5-60 minutes drying time, depending on type of glue used, before turning the water back on. Follow Step 8 under NPT instructions to complete.

**We recommend flushing, not draining, your water heater before installation by following your manufactures guidelines.**

### Specifications For

#### House Unit

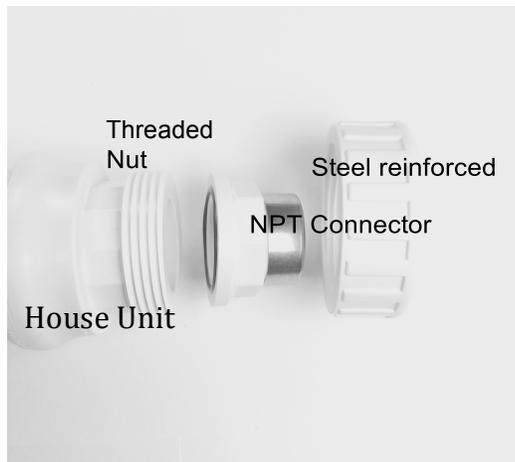
**Weight:** 2 lbs., 6 oz.

**Dimensions:** 18.5" L, 2.5" Diameter

**Volume:** 13.5 oz.

**Housing:** ABS

**Flow Form:** HDPE



### Specifications For

#### Commercial Unit

**Weight:** 5 lbs., 1oz

**Dimensions:** 28.75" L, 4.5" Diameter

**Volume:** 56 oz.

**Housing:** Abs

**Flow Form:** HDPE

Avoid leaving this unit in freezing temperatures with residual water inside as impaired function may result. If unit is buried in dirt, any brass fittings must be covered and sealed as nature will break down the brass. Cover with several wraps of weatherproof tape.

The Natural Action Technologies (NAT) limited lifetime warranty coverage of (10) years covers manufacture defects or quality issues. It is also accompanied by a 90 day customer satisfaction guarantee from the date of delivery. The warranty does not include misuse, abuse, sunlight damage, improper installation, freeze damage, natural disaster or blemishes from the manufacturing process.

For more information and products visit us at [www.NaturalAction.com](http://www.NaturalAction.com)

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