⚠ IMPORTANT

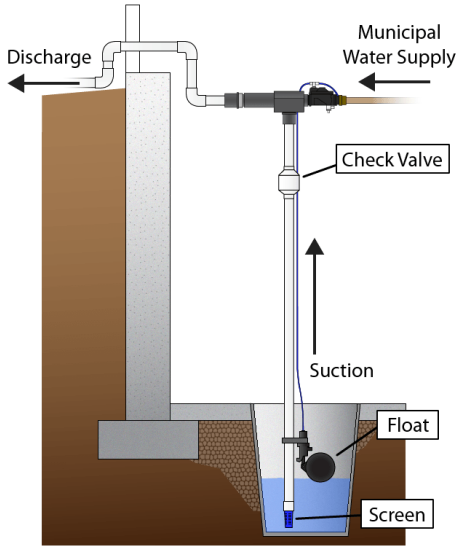
Installer: Instructions must remain with installation.
End user: Run the pump twice a year by lifting the float.

***Note**: If you have an electrically pumped residential well as your water supply, a water-powered backup sump pump will not operate during a power outage.*

WATER COMMANDER™

Installation Procedures: MG22 *(High Performance)* or MG36 *(Ultra Performance)*

Water Commander™ can be installed by a licensed plumber or by yourself if you are capable in basic plumbing. The procedures are simple. In addition to what is provided, you will need some basic tools and a few items easily purchased locally.



Tools Needed:

- A 1 ¾" (MG22) or 2" (MG36) hole saw
- Philips screwdriver
- Channel lock pliers or wrench to tighten threaded fittings
- Hacksaw or PVC pipe cutter to cut PVC pipe
- Soldering equipment for copper pipe (propane torch, solder, flux, emery cloth, copper pipe cleaning brush)

Items Included with the Unit:

1x **Water Commander™** backup sump pump

1x **Gray clamp with screw** to attach sump pump to wall or ceiling joist

1x **Float valve with double clamp** to attach to the 1 ¼" (MG22) or 1 ½" (MG36) PVC suction pipe

1x **12' length of coiled plastic tubing**

3x **Plastic cable ties**

1x **Check valve** for suction pipe from sump well

4x **90-degree white PVC fittings**

1x **Blue intake screen** for bottom of suction pipe

Items You Will Need to Supply:

- Two lengths of 1 ¼" (MG22) or 1 ½" (MG36) PVC pipe (one for the suction pipe out of the sump well and one for the discharge) with primer and adhesive
- Water hammer arrestor for pressure of 60PSI or more (available as an option from Tane Corp.)
- A backflow prevention device is required for your incoming water line. Check your local code. Tane Corporation recommends a dual check valve per ASSE Standards 1012 or 1024.
- One ¾" or 1" ball valve for incoming water line
- ¾" or 1" copper water pipe, fittings, and soldering materials (1" PEX piping acceptable, never ¾" PEX)
- Teflon tape for threaded fittings

Limited Warranty

Tane Corporation warrants this Water Commander™ sump pump to be free of defects in material and workmanship, to the original purchaser when properly installed, used and maintained, for a period of three years from the date of purchase. In the case of such defects, Tane Corporation will repair or replace the pump as needed and as determined by Tane Corporation. This warranty is in lieu of all other warranties, expressed or implied; and we do not authorize any representative or person to assume for us any other liability in connection with our products. Tane Corporation expressly disclaims liability for special, consequential or incidental damages or breach of expressed or implied warranty.

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www.watercommander.com

Read All Instructions Before Installing

STEP 1: Locate Best Position for Water Commander™

1.1) Position Water Commander™ on the wall near your sump well, or between the ceiling joists above the well. **Do not attach Water Commander™ yet.**

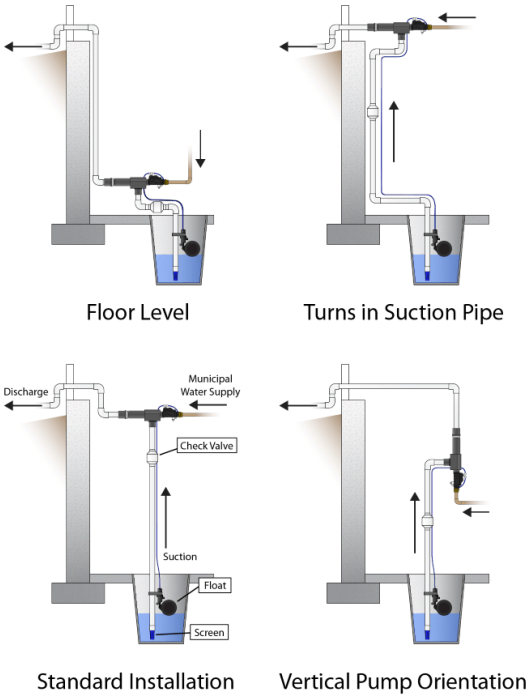
1.2) Additional considerations as you position Water Commander™:

a. Make sure the discharge end of Water Commander™ faces the closest outside wall. Note that you will have to drill a 1 ¾" (MG22) or 2" (MG36) hole through the exterior wall for the discharge pipe. Make sure the discharge pipe will be able to clear any outside obstructions.

b. Determine the desired position of the vertical suction pipe that is to drop into the sump well before choosing the permanent mounting position.

c. Assure that the vertical suction pipe will not interfere with the primary sump pump or primary vertical discharge pipe.

d. You should also note up to what position you will need to bring the ¾" or 1" house water supply line.



STEP 2: Extend Cold Water Supply Line to Desired Position

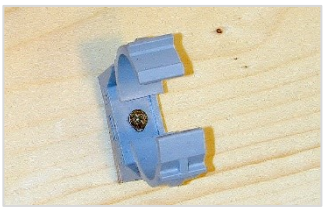
2.1) Install water line with an approved backflow prevention device and a ball style shut-off valve. The ¾" or 1" cold water supply must be **hard piped** directly into the unit. **Tap into a full ¾" or 1" water line. Avoid tapping into the supply line after a secondary device such as a water softener or filter.**

⚠ IMPORTANT

- **If using PEX piping for MG22 or MG36 models, use 1" (do not use ¾") to allow for full water flow.**
- **Do not connect through galvanized pipe as it is corroded internally and restricts the flow of water.**
- **Do not use garden hose**.

2.2) **Note: Do not apply heat directly to Water Commander™.** Make copper connections separately and then thread them together with Water Commander™. Also note that all threaded connections should be sealed with Teflon plumbing tape or pipe thread compound.

STEP 3: Mount Water Commander™



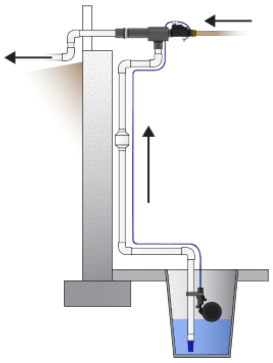
3.1) A gray mounting clamp and screw are provided to attach the clamp to the mounting surface. The clamp fits to the narrow grey flange in the center of Water Commander™. Just push the unit into the gray clamp, and it will self-lock in position.

3.2) Attach cold water supply pipe. **Do not open the water valve until all the following steps in these instructions are completed.**

STEP 4: Attach 1 ¼" (MG22) or 1 ½" (MG36) PVC Suction Pipe

4.1) From the Water Commander™, measure and cut the suction pipe to about eight inches from the bottom of the sump well, including any 45- or 90-degree fittings. After adding blue screen and check valve, the suction pipe should be about an inch or two off the bottom of the sump.

4.2) Using PVC primer and cement, cement the blue screen onto the **bottom end** of the suction pipe. The PVC check valve **must be cemented** in line in the suction pipe above the water and below the pump. **Make sure the check valve flow direction is correct, pointing vertically toward the pump.**



Note: If Water Commander™ is not positioned directly over the sump well, you may use 45- or 90-degree elbows to bring the suction pipe to the fitting at the base of Water Commander™ as shown.

4.3) Preassemble pipe and fittings before gluing to ensure correct positioning.

STEP 5: Install Float

5.1) Attach the float valve by pushing the open clamp directly into the PVC pipe until it wraps around it and snaps closed.

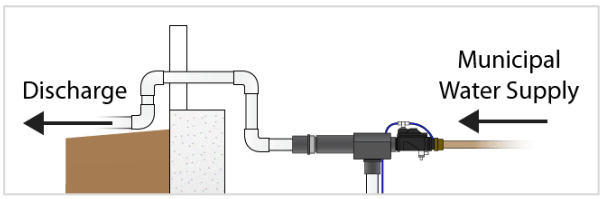
5.2) Position the bottom of the float ball above the electric pump.

5.3) Ensure that nothing interferes with the free movement of the float.

STEP 6: Install 1 ¼" (MG22) or 1 ½" (MG36) PVC Discharge Pipe

6.1) Drill a 1 ¾" (MG22) or 2" (MG36) hole through the exterior wall for the discharge pipe. Insert your 1 ¼" (MG22) or 1 ½" (MG36) PVC discharge pipe through the exterior wall from the outside of the house. **Be sure the discharge line has a very slight downward pitch from the pump to avoid water remaining in and freezing in the discharge pipe.**

6.2) It is important to utilize at least two or more 90-degree fittings on the discharge pipe as they assist in the suction generation of Water Commander™. They may be placed either inside or outside the house. A vertical section of discharge pipe inside the house that forms a trap can be utilized as well.



6.3) Apply Teflon tape to threaded connections.

6.4) Make sure all pipes are aligned before cementing.

STEP 7: Connect Tubing

7.1) Push one end of the tube into the open end of the “T” connector on the top side of Water Commander™.

7.2) Extend the tube down the suction pipe to the float valve, attaching it loosely with cable ties. **Do not crimp tubing.** Leave a few more inches of tube than needed before cutting off any excess tube with a scissors or pocket knife.

7.3) Push the other end of the tube into the open connector at the top of the float valve in the sump well.

7.4) The tube can easily be removed and reinserted a number of times by pushing in the retainer ring around the tube while extracting the tube from the connector. Just push the tube firmly into the connector to reattach.

STEP 8: Test Water Commander™

8.1) Turn on the cold-water supply. Water Commander™ should run for a few seconds before shutting off.

8.2) Examine all plumbing connections for leaks. Turn off the water and repair them at this time if necessary.

8.3) Temporarily unplug your primary sump pump. Fill your sump well with water using a hose or bucket until the float valve automatically lifts. Water Commander™ should automatically start up and run until the sump well is almost empty. It will take a few seconds to start the suction during the first test. Subsequently, suction will immediately start. Plug back in your primary sump pump. Repeat this test twice a year to flush fresh water through the system.

STEP 9: Adjust Flow Control Fitting

9.1) The flow control fitting (shown to the right) is pre-set, but can be adjusted to shorten or lengthen run time of Water Commander™ if necessary.

9.2) If the unit turns off before the water level reaches a level close to the bottom of the suction pipe, loosen the metal locking nut and turn the plastic flow control knob clockwise about one half turn. Reset locking ring.

9.3) If the unit runs too long and starts sucking air, turn the flow control knob counterclockwise by one quarter to one half turn and tighten locking nut.

9.4) Repeat this procedure if necessary until desired run time is reached.

Additional Information

If you have any installation questions, please contact us and we will answer any questions you have. Additional photos of actual installations are available on our website (www.watercommander.com).

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