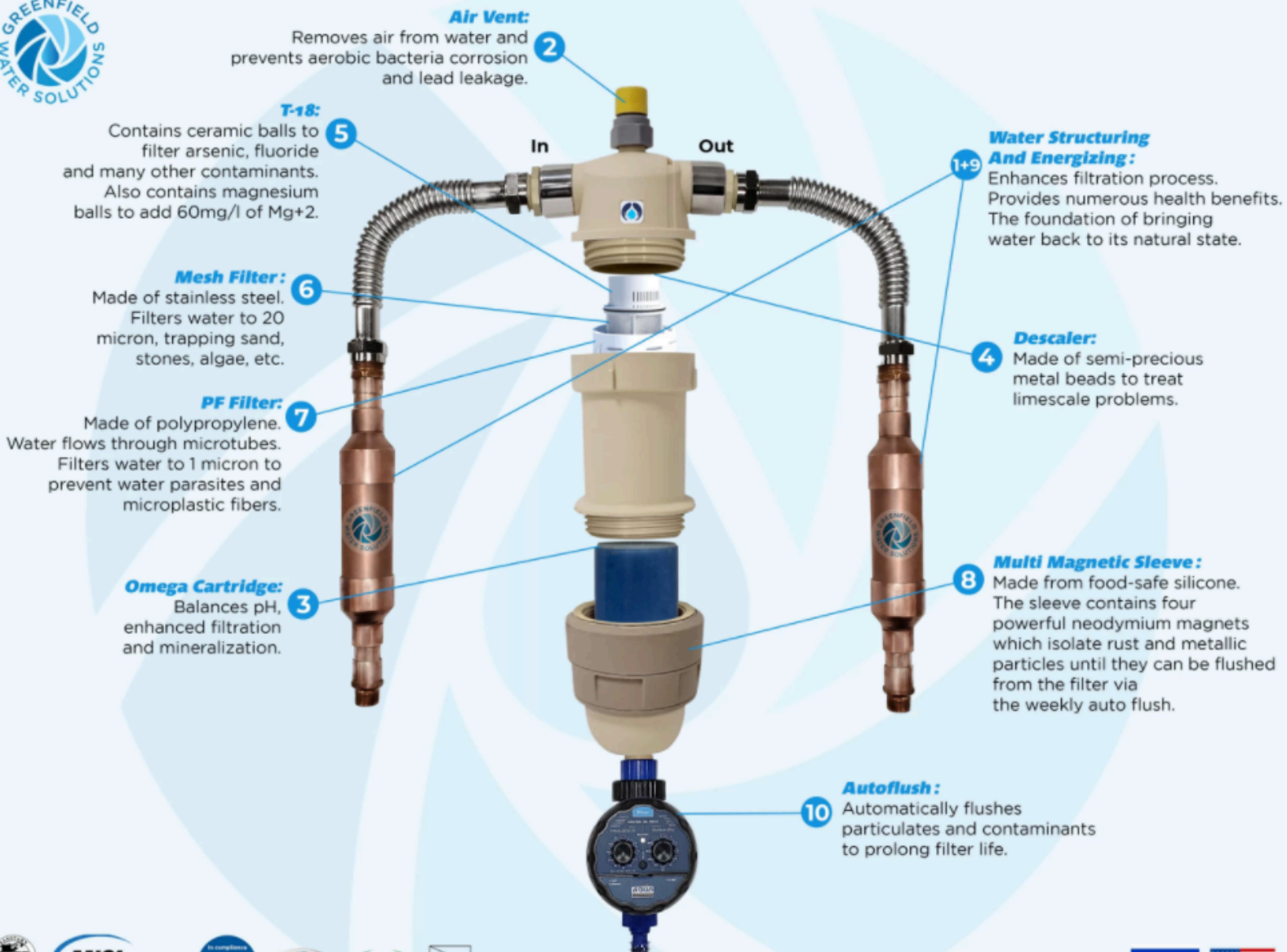




# GREENFIELD WATER SOLUTIONS

## TipaTech Whole House Structured Water Filter



**AUTO-FLUSH VALVE**



## **INTRODUCTION**

Congratulations on your purchase of the TipaTech Whole House Structured Water Filter. Greenfield Water Solutions brings you the best in a whole house water filtration system. You and your family will now enjoy structured, energized, filtered, mineralized and descaled water from every tap in the house.

## **SPECIFICATIONS**

- Filter Housing dimensions: 7" x 18"
- Working pressures: 23psi - 58psi
- Flow: Up to 20 gpm
- Mesh filter level: 20 micron
- PF filtering level: 1 micron
- Operating Temperature: Cold water supply line only

## **UNPACKING**

Thoroughly inspect your TipaTech to ensure there is no physical damage and all parts are included.

### **Parts List:**

1. Four stainless flex connectors
2. Two copper Vortexers w/ copper brackets
3. Air Vent with yellow cap
4. Top inlet/outlet assembly
5. One L shaped metal hanger - screws not included
6. Two 1" male BSP (clear gasket) x 1" male NPT adapters
7. Upper T-18 filter (white cartridge)
8. Middle housing which holds the T-18 filter cartridge
9. Lower Omega filter (blue cartridge)

- 10. Lower housing which holds the Omega filter cartridge
- 11. AquaFlush valve
- 12. Vinyl Tubing w/ Stainless clamp



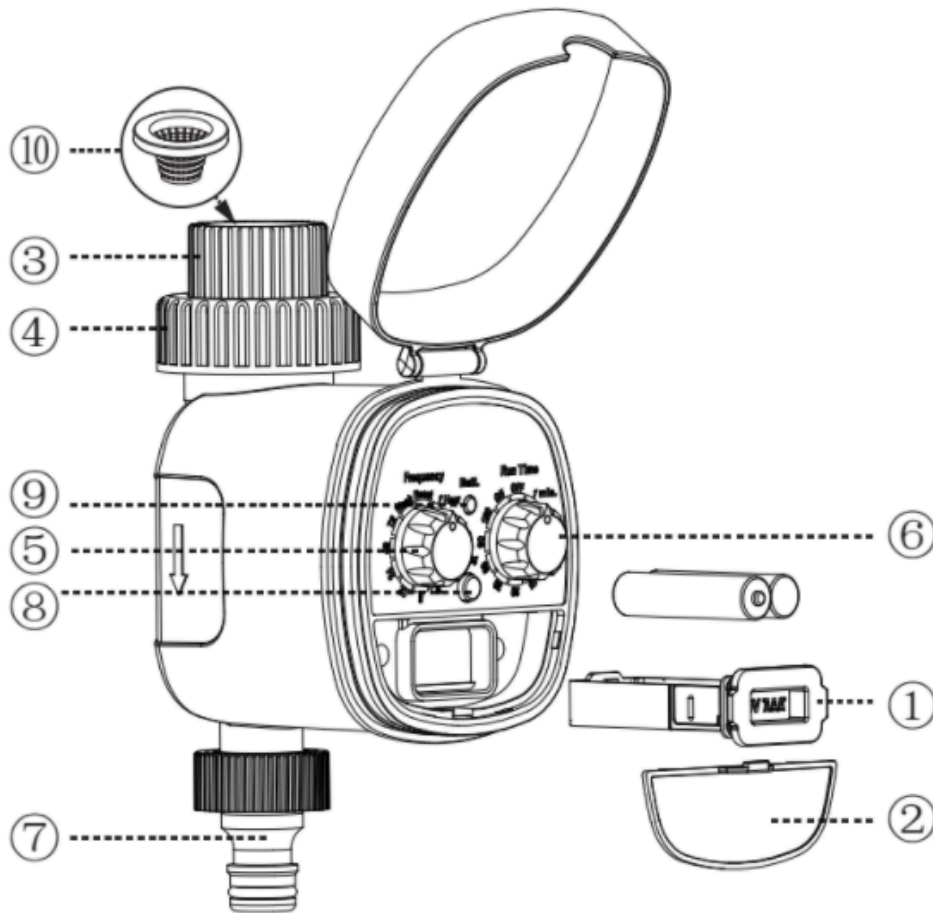
## ASSEMBLY AND INSTALLATION

This filter should be installed in the most appropriate location (close to a drain) where the filter will serve all water outlets within the house. Water pressure of the water supply line entering the house should be no higher than 60 psi.

1. The TipaTech must be installed in an area protected from freezing or direct sunlight.
2. Attention: There is a clear silicone gasket on the 1" BSP male thread. The 1" BSP male thread should be inserted into the 1" female BSP thread located on the housing inlet/outlet. The 1" male thread NPT fittings will connect to the 1" flex connectors which are included with your TipaTech.
3. Observe the directions the arrows on the TipaTech which indicate the direction of water flow. **Be careful not to install backwards!**
4. The TipaTech must be installed in an upright position with the Air Vent on top and the Drain spout on the bottom.
5. Determine where the TipaTech will be installed and screw the L bracket securely into a stud or an install board that has been screwed into studs on either side of the filter L bracket.
6. The TipaTech filter housing consist of an upper, middle and lower filter housing. Ensure gaskets are properly seated in the middle and lower filter housings.
7. Insert the white T-18 filter cartridge into the middle housing. Attach the middle housing to the upper housing by hand.
8. Examine the bottom housing to ensure the gasket is properly seated inside the housing. Securely seat the blue Omega cartridge with o-ring facing down into the lower assembly. Attach the lower housing to the middle housing securely by hand. The filter housing sections can be assembled with only your hands.

9. Attached the assembled filter housing into the L bracket and screw the orange air vent cap down onto the housing. Do not under any circumstances screw the AIR VENT to the housing with a wrench. Tighten securely only by hand. *(The yellow cap is there to keep dust and debris from entering the air hole.)*
10. Attach the stainless flex connectors to the housing inlet and outlet of the TipaTech housing and the other ends to the Copper Vortexers. Ensure gaskets are inserted into the ends of each flex connector. Hand tighten and then by wrench approximately 1/4 turn. Do not over tighten.
11. Copper Vortexers are bi-directional and can be installed in any position. Use the copper brackets to secure the copper Vortexers to the wall or allow the Copper Vortexers to hang freely.
12. Use the second set of flex connectors to attach the Copper Vortexers to the inlet/outlet water lines and ensure a shut off valve is installed on the inlet side before the Copper Vortexer.
13. Remove the gray drain valve on the bottom of the unit and replace with the AquaFlush valve attaching by hand only. *(See guide below)*
14. Install two AAA batteries into the AquaFlush valve and set the Frequency dial to the 'Week' position (denoted as an asterisk \*) and 'Run Time' dial to the '1 minute' position. The AquaFlush water timer is now set to flush the TipaTech once a week for one minute. *(Detailed instructions are below)*
13. Attach the 3/4" OD x 5/8" ID drainage tubing onto the AquaFlush valve outlet using the stainless clamp to secure the tubing to the flush valve. Additional tubing may be required to reach your drain.
14. The TipaTech can drain into a floor or wall drain or to an outside location.
15. Securely fix the tubing down as far as possible down into the drain. The tubing must be secured in place or upon charging the system, the hose will come loose.
16. *If no drain is available, a manual flush will need to be done monthly directly into a five gallon bucket. Initiate the flush by activating the manual mode on the AquaFlush valve. During normal operation, keep the AquaFlush dials in the off position.*

## TIMER FEATURES



1. **Battery compartment**
2. **Battery compartment cover** - Slide out battery compartment and insert 2 AAA alkaline batteries. **DO NOT USE RECHARGEABLE BATTERIES.** Test the timer by turning the Run Time knob to ON position. You should hear the sound of the motor within 10 seconds. If you don't hear the sound, check to ensure batteries are properly installed. Turn Run Time to OFF position before connecting to filter housing.
3. **3/4" Filter housing adaptor**
4. **Collar ring** - Loosen collar ring to unlock filter housing adaptor. Screw filter housing adaptor onto the filter housing and lock tight with the collar ring. Tighten only by hand.
5. **Frequency knob** - Determines how often the timer will flush water. **Set knob to the asterisk position '\*' which will program the timer to flush water once weekly.**
6. **Run Time knob** - Determines how long the times will flush water. **Set the Run Time knob to the 'I' position which will program the timer to flush water for one minute.**
7. **Male snap-on connector** - Connect vinyl hose to the bottom of the timer.
8. **Delay button** - not applicable
9. **Led indicator** - Normally flashes every 4 seconds. Replace batteries if Led light flashes quaky or steadily.
10. **Filter** - traps dirt to prolong life of timer. Clean filter regularly.

17. You are now ready to flush the filter as the last step for your filter system to become operational.
18. After opening a faucet downstream from the filter, **gently and slightly open** the water main valve located on the inlet line to your TipaTech, **while at the same time momentarily turning the 'Run Time' dial back to the 'ON' position for two to three-seconds and then back to the '1 minute' setting.** After a few seconds the flush will stop and your system will be flushed and charged and you can fully open your water valve and turn off the downstream faucet. Your system will be now be operational.

## **FIXING LEAKS**

19. After the system is fully charged, you can now look for leaks. Most leaks can be eliminated by slightly tightening a fitting or housing.
20. To be able to tighten a filter housing, pressure will need to be relieved by turning off the main water line valve and then initiating the auto flush as described above. The housing can then be tightened and system recharged.
21. If the orange air gap cap on top is leaking, the main water line valve will need to be turned off so the cap can be removed and disassembled. (The original tan cap can be used to temporarily keep the filter housing secure while fixing the orange cap.) *1. Remove cap. 2. Remove gasket inside cap. 3. Using a hex key or small phillips screwdriver, insert it into the small hole on top and push the float assembly from the cap. 4. Re-insert in the order it came out along with gasket. 5. Ensure the float assembly makes a clicking sound when shaking the cap. 6. Screw back onto to the housing. 7. Turn water on gently and the cap should seal.*

**Tech Support: 208-462-0626**

