HYDROFARM
— Horticultural Products —®

Active Aqua De-chlorination System

10” filter, 60 GPH / 20” filter, 120 GPH

Owner’s Manual

Congratulations on your new Hydrofarm de-chlorination system. Please follow the outlined steps in regards to the installation and maintenance of your water treatment system. Proper maintenance will ensure fresh purified water for many years. If you have any technical difficulties or questions, please do not hesitate to contact us and we will be happy to assist you.

The Active Aqua 410 De-chlorination system comes with a 10" sediment and 10" carbon filter. The 420 system comes with a 20" sediment and 20" carbon filter. They are capable of removing up to 99% of chlorine and 97% of sediment from your water supply, as well as reducing chloramines and volatile organic compounds (VOC's) down to acceptable levels.
Chlorine and chloramines cause damage to any beneficial organisms living in your growing substrate and root zone. Chlorine will dissipate from water if left sitting out, but the chloramines will remain. Filtered water is also necessary for compost teas.

Features and benefits:
-Made in the USA
-Metal mounting bracket with clear filter housings (easily wall-mounted)
-Garden hose bib adapter and filter wrench included
-3 year limited warranty

Specifications:

AARO410
-Dual 10" filter protection
-Full ¼" flow with shutoff valve included
-3750 gallon filter life
-6' feed and output lines

AARO420
-Dual 20" filter protection
-Full 3/8" flow with shutoff valve included
-9000 gallon filter life
-12' feed and output lines

Your system was designed and made in the United States. This two stage de-chlorination unit is ready to hook up to your local water source with the included garden hose bib adapter after completing the following steps.

Before hooking the unit up to a water supply:
Unpack your unit completely.
Inspect for any damage or broken parts as a result of shipping.
Locate and connect the supply side of the equipment. This will be the right side as you face the system. The supply side will consist of **Black** ¼" (or 3/8" for the AARO420) tubing and garden hose bib adapter.
Locate the **blue** filtered water line, this line will emit treated water for use and will attach to the left side of the system.
Once all lines are installed, turn on the water source and allow the system to run for approximately 15 minutes to properly flush out the filters before drinking. Check the system for leaks!
The sediment and carbon block filters (stage 1 and 2) should be changed according to the specifics outlined in the attached filter change sheet.

Accessories

Handheld EC/TDS Meters: A very accurate way to check the performance of your water filtration system. Regularly checking the EC/TDS can help detect any problems with early membrane exhaustion. Checking the water after the DI cartridge will give you added peace of mind that your reef/salt water system is receiving the quality of water you need. Note that de-chlorination alone will not significantly reduce the EC/TDS. A reverse osmosis system is required to drastically decrease this value.
Membrane Flush Kits: Flush kits are used to extend the membrane life of the filter.
Membrane Add-on Kit: Installing an additional membrane to your existing system will increase your units output!
Storage Tank(s): Many times storage of water is needed or just desired. 40 gallon or larger food grade tanks are available to automatically top off. We can design tanks to your needs!

Filter Change Sheet and Normal Operation

Note: Filters are referenced in the order in which they appear in the system
Sediment Filter: This filter is the first stage in the de-chlorination process. The sediment filter effectively removes particles and sediments. An example of a particle that would be removed is sand. The sediment filter's life depends on the amount of total particles in your water supply. Discoloration is a sign that the filter is loaded with contaminants and should be replaced with a new sediment filter.
Carbon Block, GAC or Chloramine Blaster Filter: These filters effectively reduce VOC's (Volatile Organic Compounds) in RO water systems. The federal Safe Water Drinking Standard mandates that if you have contaminated drinking water, you need to treat it accordingly. The most cost effective way to predict carbon filter life is by measuring the output in gallons. The carbon block will filter 3,750 gal @

1.0 GPM of 2ppm Chlorine (Cl_2). A GAC will yield 5000 gallons of treated water@ 1.0 GPM of 2ppm Chlorine (Cl_2) . The Chloramine Blasters are run two in series and will yield approximately 8000 gallons of treated water.

(*Do not exclude drain water from this capacity, as it is treated water.)*

Limited
Three Year Warranty

Hydrofarm, Inc. warrants the product to the original owner to be free of defects in material and workmanship for a period of three years from the date of receipt. This warranty covers filter cartridge housings, fittings and tubing and all components. Filter replacements including sediment cartridges, carbon block cartridges, reverse osmosis membranes are the responsibility of the consumer.