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US Water Systems Disruptor 4-Stage Filter System

320-USP-DS-QUAD-10 | 320-USP-DS-QUAD-20

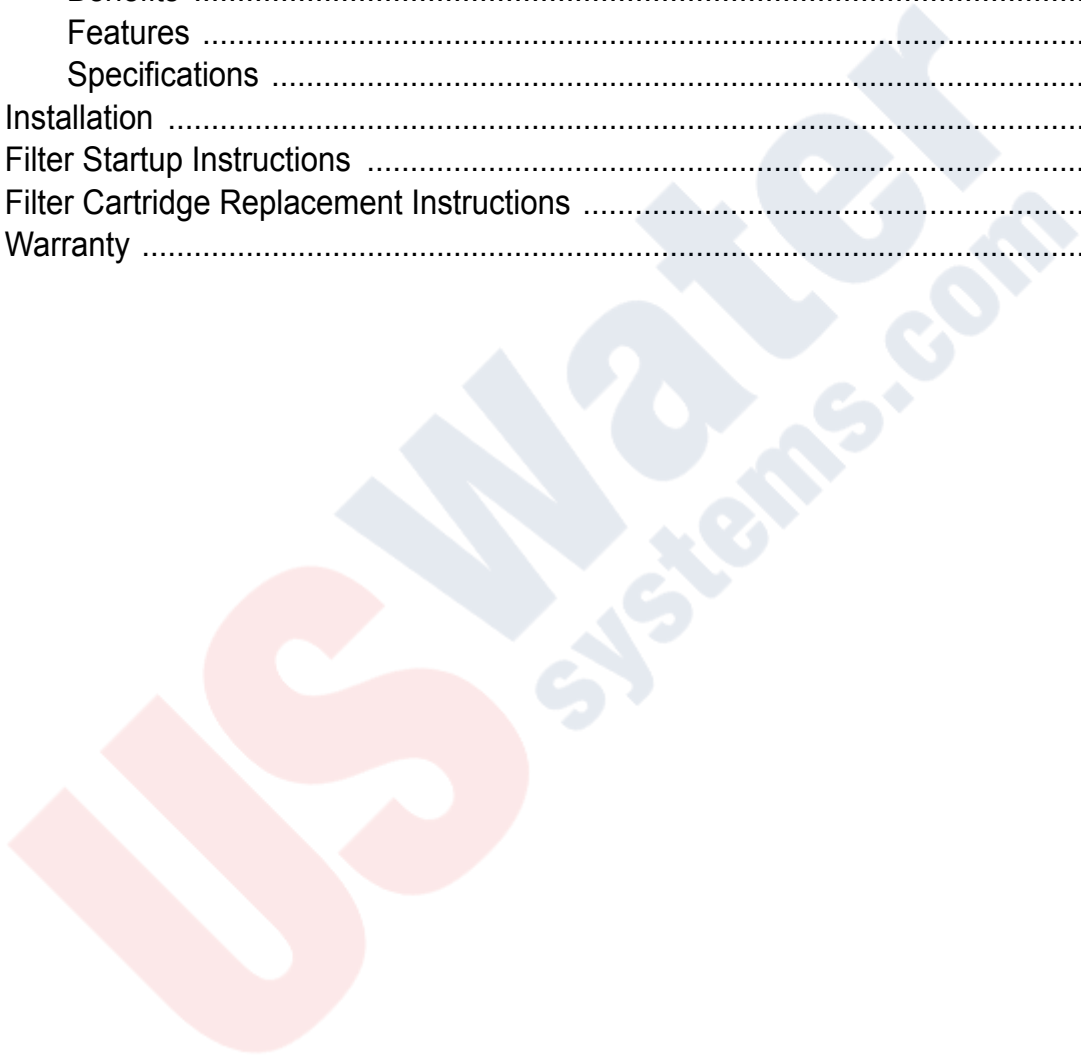


Need help? 1.800.608.8792

www.uswatersystems.com

Table of Contents

Unpacking and Inspection	3
Safety Guide	3
System Dimensions (10")	4
System Dimensions (20")	5
Filter Specifications and Operation	6
Benefits	6
Features	6
Specifications	6
Installation	7
Filter Startup Instructions	11
Filter Cartridge Replacement Instructions	12
Warranty	14



Unpacking and Inspection

Be sure to check the entire unit for any shipping damage or lost parts. Also note damage to the shipping cartons. Contact US Water Systems at 1-800-608-8792 to report any shipping damage within **24 hours of delivery**. Claims made after 24 hours may not be honored. Small parts, needed to install the unit, will be in a parts bag. To avoid loss of the small parts, keep them in the parts bag until you are ready to use them.

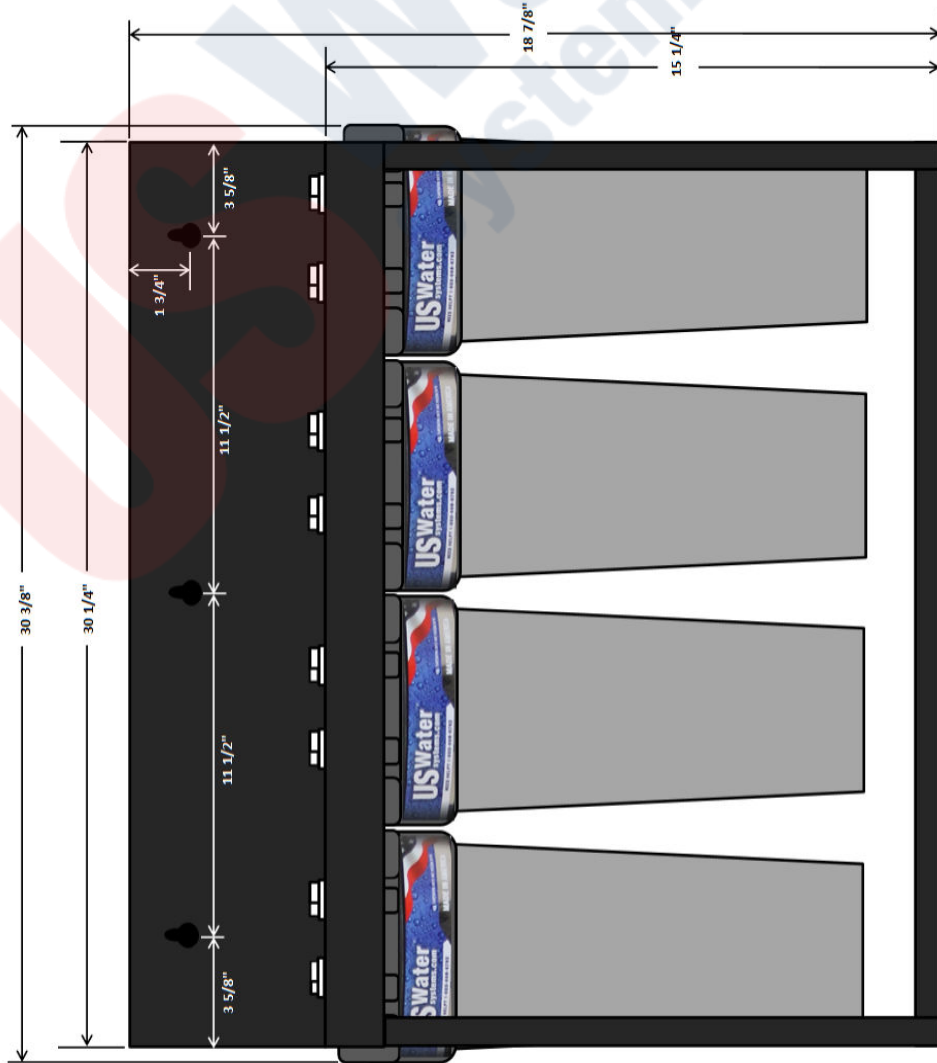
Safety Guide

- Check and comply with your provincial / state and local codes. You must follow these guidelines
- Use care when handling the system. Do not turn upside down, drop, drag, or set on sharp protrusions
- **WARNING:** This system does not remove biological contaminants. US Water Systems recommends that bacteria levels be checked periodically to ensure there is no bacteria present. Coliform and E.coli most importantly.

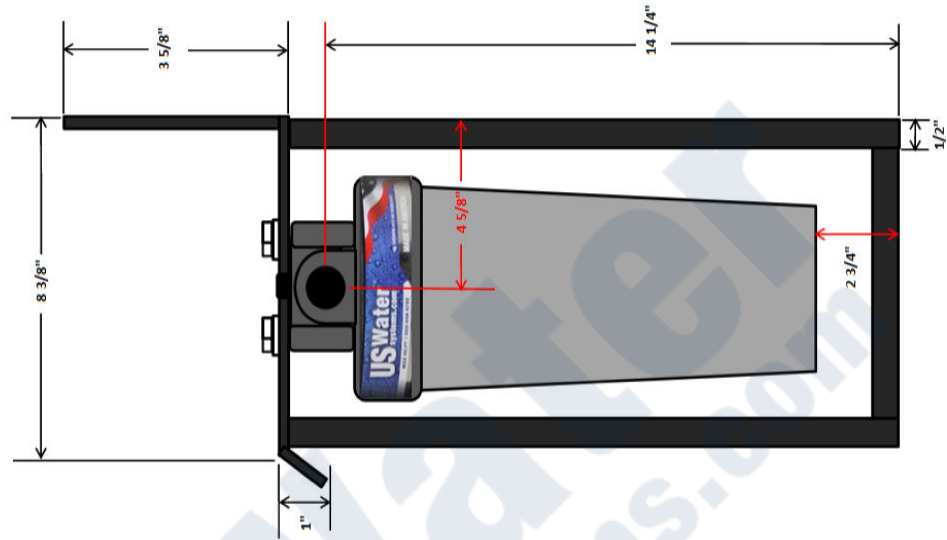
System Dimensions (10")



FRONT VIEW



SIDE VIEW



US Water Systems 4.5" x 10" Quadruple Floor Mount Filtration System | No Scale | Drawn by: C. Dietz | March 7, 2019

Filter Specifications and Operation

Benefits

- **Disruptor Seal** - It has a positive "o-ring seal" unlike traditional "flat top" filters.
- **Disruptor Media** - Inside the filter is a layer of pleated material manufactured of Nano Alumina Fibers that have a Zeta potential of 51 millivolts. Many contaminants are actually "magnetically" removed from the water supply and "secured" in the Charged Filter
- **Disruptor Contaminant Removal** - Removes lead, 99% of cysts, 99.9% of bacteria, and reduces Chromium 6
- **NSF Certified** - Conforms to NSF/ANSI 42 and 61 as well as USP Class VI

Features

- Cartridges have a double O-ring Posi-Seal for a positive barrier
- Utilizes a Step Down Filtration method to protect the Disruptor filter and increase longevity
- System conforms to NSF/ANSI 61
- Low pressure drop - typically < 3 PSID (clean)

Specifications

	320-USP-DS-QUAD-10	320-USP-DS-QUAD-20
Inlet / Outlet Connection	3/4" FNPT	1" FNPT
Peak Flow	12 GPM	25 GPM
Maximum Pressure	90 PSI	
Temperature Range	40°F - 100°F	
Turbidity	< 1 NTU	
TOC	< 50 mg/l	
pH	5 - 9.5	
Iron	< 0.3 PPM	
Manganese	< 0.05 PPM	

Installation

1. Install the system in the desired location in the water treatment system. The caps are marked "IN" and "OUT" on the top of the housings.
2. The system will be built when it arrives flowing left to right. This can be disassembled and changed to match a right to left flow application.



3. Install threaded nipples or other threaded fittings in the housing. Be sure to use Teflon tape on the fittings. Tighten them with a pair of channel locks. If flex pipes with rubber gaskets are used, there is no need to Teflon tape the outer fittings. If a normal plumbing fitting is used, then be sure to Teflon tape the outer fitting.



4. While the system can be free standing, it is recommended that it be mounted to a wall to reduce movement during filter changes. Mark the hole locations on the wall using a marker or pencil while ensuring the filter housing is level. If this is to be mounted to a studded wall, a mounting board can be used. A shelf board or plywood can be mounted to the studs then the filter housing can be screwed to the plywood or shelf board.



5. Shut off the water and release the water pressure at the lowest sink or spigot. Cut the pipe and connect it to the filter. Connect the inlet plumbing to the inlet on the filter housing. Tighten with an adjustable wrench.



6. Connect the outlet plumbing to the outlet on the filter housing. Tighten with an adjustable wrench.



NOTE: If pipe fittings are used, be sure to use Teflon tape on the threads prior to installing the fitting on the filter housing.

7. Remove the sumps from the filter housings and install the filters. Ensure that the filters are installed in the correct order. The system utilizes a step down filtration method so the 5 Micron Magna will be the first, followed by the 1 Micron, 0.5 Micron, then finally the Disruptor Filter. A very small amount of silicone grease or water can be used to lubricate the O-rings on the filter. The filter housing cap has a coupling that will accept the o-ringed nipple on top of the filter. Install the filter so the nipple on the top is fully seated in the filter housing cap.



8. Lubricate the O-ring on the filter housing sump and install it. Tighten the filter sump hand tight. That should be adequate. Do not use abrasive tools to tighten the housing or damage may occur.

NOTE: Adding a little bit of grease to the sump threads will make the sump easier to remove when replacing the filter.



NOTE: The filter will fit tightly in the housing cap. It will take force to push the filter in the cap. This ensures a positive seal. Be sure the the filter is pushed all the way in the cap.

Filter Startup Instructions

1. Open a faucet or spigot down stream of the filter. Slowly open the water shutoff valve and let the filter fill. Air will be pushed out of the filter through the open spigot or faucet downstream. Once there is no air coming out of the faucet or spigot, turn the water supply on fully and shut the faucet or spigot.
2. Check for leaks. If there are no leaks, the filter is installed and ready for service.

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Filter Cartridge Replacement Instructions

1. Shut off the water supply
2. Open the faucet or spigot closest to the filter housing and allow all the water to empty from the plumbing systems

WARNING! If the pressure is not released, the filter sump will be very difficult to get loose. It is imperative that the water pressure is released prior to attempting to remove the filter sump.

3. Remove the sump by spinning it clockwise until the sump is completely removed.



4. Remove the old filter and discard.



5. Lubricate the O-rings and install the new filter in the filter housing cap.



- Lubricate the O-Ring for the sump and the sump threads with food grade silicone grease.



- Install the filter sump in the filter cap by turning it counter-clockwise until it is hand tight.



- Turn on the water supply and open a spigot downstream of the filter to release the air.
- Once the air has been released, fully open the supply valve and close the faucet or spigot.
- Check the housing for leaks and repair as necessary.

Warranty

For the lifetime of the original purchaser, at the original residential place of installation of this Water Conditioning System, US WATER SYSTEMS, INC. warrants the following:

Filter Housing - We warrant that for life from the date of purchase, we will replace the filter housing at no charge to you except for transportation and standard labor charges. Damages due to environmental issues or improper installation are not covered.

GENERAL PROVISIONS - This warranty does not apply to any commercial or industrial installations or to any part of the water conditioner which has been subjected to misuse, neglect, alteration or accident; or to any damage caused by fire, flood, freezing, Acts of God, or any other casualty, or if the original serial numbers have been removed.

These warranties are in lieu of all other warranties expressed, or implied, and we do not authorize any person to assume for us any other obligation on the sale of this water conditioner. No responsibility is assumed for delays or failure to meet these warranties caused by strike, government regulations or other circumstances beyond the control of US WATER SYSTEMS, INC..

To obtain warranty service, call or write: US WATER SYSTEMS, INC. 1209 Country Club Road Indianapolis, IN 46234 (800) 608-USWA.

ANY IMPLIED WARRANTIES OF FITNESS OR MERCHANTABILITY ARE LIMITED TO THE TERMS OF THIS EXPRESSED WARRANTY AND THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THOSE HEREIN. US WATER SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

THIS WARRANTY MAY BE TRANSFERRED TO A SUBSEQUENT OWNER WITH WRITTEN APPROVAL OF US WATER AND PAYMENT OF STANDARD TRANSFER FEE.