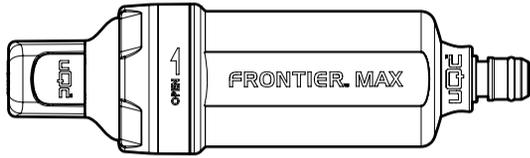


# FRONTIER™ MAX

FILTRATION SYSTEM



## USER MANUAL

Model Number 67018

EPA Est. No 71766-UT-001

## FRONTIER™ MAX

### INTRODUCTION

Thank you for purchasing The Frontier™ Max multipurpose filter. The Frontier™ Max is the ideal choice for tactical and outdoor filtration.

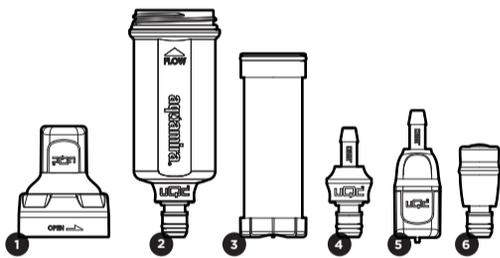
### FEATURES

- New replaceable Series IV RED Line filter removes virus, bacteria, Cryptosporidium and Giardia.
- Connects in-line to hydration bladders and gravity flow systems.
- Patented "Cap-Strap" protects mouthpiece from contamination
- 2.5 Ounce dry weight
- Replaceable prefilter disks
- Miraguard™ Antimicrobial\* Technology

### CAUTIONARY STATEMENTS

- CAUTION - To avoid cross contamination: Do not handle filter or mouthpiece with wet hands that have been exposed to contaminated water. Do not submerge filter or mouthpiece in contaminated water.
- CAUTION - Do not freeze filter or expose filter to extreme temperatures
- CAUTION - The Frontier Pro Water Filter contains small parts - Keep away from children

### COMPONENTS



### PARTS LIST

PART #	ITEM NAME
1	077115 Frontier Max UQC Cap
2	077116 Frontier Max Filter Casing
3	070118 Filter
4	080007 UQC Male Adapter
5	080004 UQC Female Adapter
6	070077 Bite Me™ Valve

### REPLACEMENT AND COMPATIBLE PARTS

PART #	ITEM NAME
67019	Frontier Max Replacement Filter Cartridge (RED-IV-120)
67020	Frontier Max Replacement Filter Cartridge (GRN-IV-100)
67023	Frontier Max UQC Splice Kit 1/4"
67024	Frontier Max UQC Splice Kit 5/16"

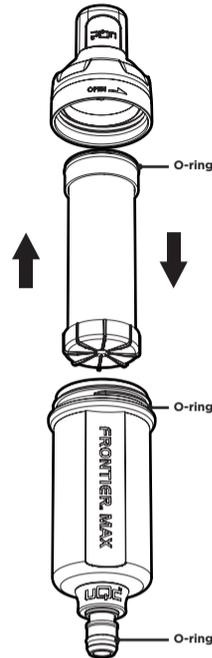
### HOW TO USE THE FRONTIER MAX

The Frontier™ Max Multi-Function Filtration System is designed for ease of use and reliable service. To ensure proper performance please follow these simple steps.

### MAINTENANCE AND STORAGE

#### Remove/Replace Filter

The Frontier Max accepts any Frontier Series IV Filter. The RED Line filter (included) is rated to filter at least 120 gallons of water. Replace filter when the flow rate slows down or when unpleasant taste and odor is noticeable.



#### STEP 1

Unscrew the protective filter casing and remove filter cartridge from the removable cap by pulling it gently.

#### STEP 2

Remove the replacement filter from the protective tube, then remove the shrink wrap from the new filter.

#### STEP 3

To assure a proper seal, check the o-rings to make sure that they are clean and that there is no dirt or grit on the o-rings or in the area where they seal.

#### STEP 4

Locate the o-ring end of the new filter cartridge and insert it into the casing cap until it stops.

#### STEP 5

Replace the filter casing and screw it into the cap until it grounds out.

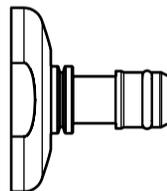
#### Filter Storage

- Remove filter cartridge, cap and bite valve sheath.
- Allow filter cartridge to air dry at room temperature for at least 48 hours prior to storing. Once dry, we recommend that you store the filter in the protective filter tube provided with Frontier Series IV replacement filters. (sold separately)
- Do not store the filter in an air-tight container.

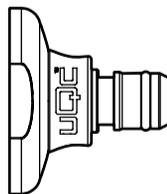
Note: DO NOT FREEZE. Freezing a wetted filter may damage the filter media and compromise filter integrity.

### UQC INSTRUCTIONS

The Frontier Max is designed with the patented Universal Quick Connect (UQC™) fittings on the inlet and outlet of the filter. The UQC fittings allow you to attach the Frontier Max into the outlet tube of your existing hydration system quickly and easily with a "press" and a "click". The Patented UQC design allows the Frontier Max to connect directly to any Camelbak®, Nalgene®, or Source® hydration system with quick connect tube fittings.



To connect to Camelbak® Hydrolink™ connectors, remove the UQC rubber spacer and push the end into the Hydrolink™ until you feel and hear it "click" in place. Press the button and pull to remove.



To connect to Nalgene® or Source® connectors install the UQC rubber spacer and push the end into the connector until you feel and hear it "click" in place. Press the button and pull to remove.

Mating UQC fittings are supplied if your existing hydration system does not include quick connect fittings.

### HYDRATION PACK (TERMINAL QUICK CONNECT)

#### STEP 1

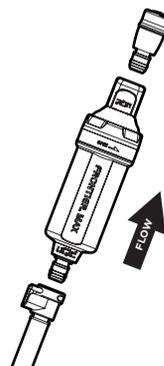
Disconnect the existing quick connect fitting and attach it directly to the inlet Frontier Max Filter. Follow the UQC instructions for correct use with your system.

#### STEP 2

Connect the Bite Me™ Valve 6 to the outlet of the Frontier Max filter.

#### STEP 3

Drink from the Frontier Max instead of the hydration system bite valve.



## HYDRATION PACK (IN-LINE QUICK CONNECT)



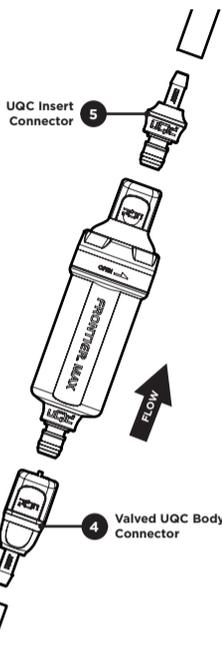
### STEP 1

Disconnect the existing quick connect fitting and attach directly to the inlet and outlet Frontier Max Filter. Follow the instructions above for correct use with your system.

### STEP 2

Drink directly from the hydration system bite valve.

## HYDRATION PACK (WITHOUT QUICK CONNECTS)



### STEP 1

Determine the best location for the Frontier Max (inside or outside of the hydration pack based upon your preference).

### STEP 2

Mark and cut the drink tube at the desired location.

### STEP 3

Insert the provided UQC Fittings into the tube ends as shown. (Valved UQC body connector connects to the inlet of the Frontier Max and UQC insert connector connects to the outlet).

Note: 1/4" connectors are provided. If your system has 5/16" tubing, part number # 67024 (5/16" UQC splice kit) is required.

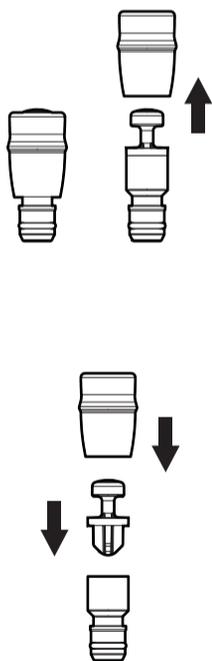
### STEP 4

Connect the Frontier Max Filter as shown. Note: UQC fittings can be reconnected without the filter in place for normal hydration tube use.

### STEP 5

Drink from the hydration system bite valve.

## REMOVE/REPLACE BITE ME™ VALVE



### STEP 1

Remove the Bite Me™ valve by releasing the UQC connection.

### STEP 2

While holding the stem end of the Bite Me™ valve with one hand, grab the base of the bite valve sheath with your other hand. Twist and pull the valve straight off.

### STEP 3

To replace Bite Me™ Valve, press the core insert into the boss until it bottoms out on the rim inside the boss.

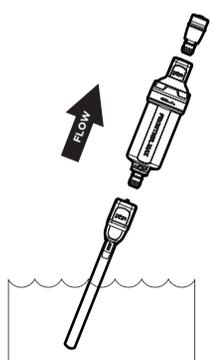
### STEP 4

Wet the inside surface of the sheath and press it over the insert and boss until it bottoms out at the base of the boss.

### STEP 5

Position the sealing rim of the sheath so that the "button" protrudes slightly above the rim of the sheath.

## AS A STRAW FILTER



### STEP 1

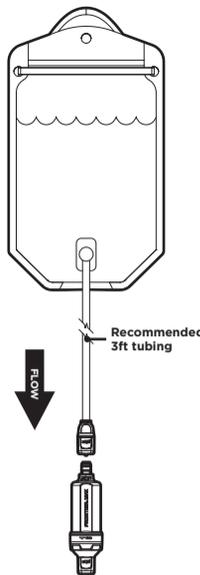
Connect the Bite Me™ Valve to the outlet of the Frontier Max Filter.

### STEP 2

Attach the male UQC adapter (4) to the end of a 1/4" tube (not included). Connect the adapter and tube to the inlet end of the Frontier Max Filter and dip tube into the cup, bottle or directly from the water source, then bite and sip.

CAUTION — To avoid cross contamination: Do not handle filter with wet hands that been exposed to contaminated water. Do not submerge filter or mouthpiece in contaminated water.

## GRAVITY FLOW SETUP



### STEP 1

Remove the bite valve.

### STEP 2

Attach Frontier Max to the outlet tubing of the reservoir using the UQC female adapter (5).

### STEP 3

Hang the reservoir with the Frontier Max at the lowest point and allow gravity to force water through the filter.

### STEP 4

If filter is dry, squeezing or rolling reservoir will help start flow.

### STEP 5

Increase the distance between the reservoir and the filter to improve the flow rate.

## TECHNICAL INFORMATION

### LIMITED WARRANTY AND DISCLAIMER

Aquamira Technologies, Inc. warrants all product to be free from defects in workmanship and materials for one year from the date of purchase by the consumer, or for the duration of the imprinted shelf life. Filter clogging or normal wear is not a defect. If you are not satisfied with the performance of an Aquamira Technologies, Inc. product, Aquamira Technologies, Inc. will repair or replace the product.

Aquamira Technologies hereby excludes any expressed or implied warranties of fitness for a particular purpose. The following is made in lieu of any such warranties: The information and specifications supplied by Aquamira Technologies, Inc. are based on standard laboratory test conditions and are believed to be reliable, but Aquamira Technologies, Inc. does not guarantee that any result shown or claimed will be obtained. Before using any Aquamira product, the user shall determine the suitability and fitness of the products for their intended use. The effectiveness of Aquamira products may be limited by environmental or hygienic conditions, such as use with contaminated hands, recontamination after filtration or treatment, failure to maintain a sterile mouthpiece or downstream equipment, sharing with multiple users, exposure to extreme environmental conditions such as heat, freezing, severe shock such as drops or other impact that may damage the integrity of the filter, seals or connections etc. The user assumes all risks and liability in connection with its own tests and use. Aquamira Technologies, Inc. shall not be liable for any injury, loss or damage, direct or consequential, resulting out of or from the use, misuse, or inability to use Aquamira Technologies, Inc. products. inability to use Aquamira products.

### FILTER CARTRIDGES

PARAMETER	(INCLUDED)	(SOLD SEPARATELY)																										
	RED Line Series II Filter	GRN Line Series II Filter																										
Service Life	120 Gal. (454 L)	100 Gal. (303 L)																										
Flow Rate	up to 500 ml/min	up to 800 ml/min																										
Operating Temperatures	35-120° F (1.6-49° C)	35-120° F (1.6-49° C)																										
Operating Pressures	0-3 psi (0-0.211 kg f/cm <sup>2</sup> )	0-3 psi (0-0.211 kg f/cm <sup>2</sup> )																										
Use Conditions	Use best water source available, quality of the source water may vary, use only Aquamira RED Line or GRN Line Series IV filters. Use only Aquamira RED Line Series IV filters if biological quality of source water is uncertain.																											
Removal	<table border="1"> <tr><th colspan="2">RED LINE   VIRUS PROTECTION</th></tr> <tr><td>Virus Removal</td><td>≥99.99%</td></tr> <tr><td>Bacteria Removal</td><td>≥99.9999%</td></tr> <tr><td>Cyst Removal</td><td>≥99.95%</td></tr> <tr><td colspan="2">MEETS US EPA BIOLOGICAL PURIFIER TEST STANDARD</td></tr> <tr><td colspan="2">Chlorine, Chemical, Taste &amp; Odor Removal</td></tr> <tr><td colspan="2">MEETS OR EXCEEDS ANSI/NSF 42</td></tr> </table>	RED LINE   VIRUS PROTECTION		Virus Removal	≥99.99%	Bacteria Removal	≥99.9999%	Cyst Removal	≥99.95%	MEETS US EPA BIOLOGICAL PURIFIER TEST STANDARD		Chlorine, Chemical, Taste & Odor Removal		MEETS OR EXCEEDS ANSI/NSF 42		<table border="1"> <tr><th colspan="2">GRN LINE   BACTERIAL PROTECTION</th></tr> <tr><td>Bacteria Removal</td><td>≥99.9999%</td></tr> <tr><td>Cyst Removal</td><td>≥99.95%</td></tr> <tr><td colspan="2">MEETS US EPA BIOLOGICAL PURIFIER TEST STANDARD FOR REDUCTION OF BACTERIA &amp; CYSTS</td></tr> <tr><td colspan="2">Chlorine, Chemical, Taste &amp; Odor Removal</td></tr> <tr><td colspan="2">MEETS OR EXCEEDS ANSI/NSF 42</td></tr> </table>	GRN LINE   BACTERIAL PROTECTION		Bacteria Removal	≥99.9999%	Cyst Removal	≥99.95%	MEETS US EPA BIOLOGICAL PURIFIER TEST STANDARD FOR REDUCTION OF BACTERIA & CYSTS		Chlorine, Chemical, Taste & Odor Removal		MEETS OR EXCEEDS ANSI/NSF 42	
RED LINE   VIRUS PROTECTION																												
Virus Removal	≥99.99%																											
Bacteria Removal	≥99.9999%																											
Cyst Removal	≥99.95%																											
MEETS US EPA BIOLOGICAL PURIFIER TEST STANDARD																												
Chlorine, Chemical, Taste & Odor Removal																												
MEETS OR EXCEEDS ANSI/NSF 42																												
GRN LINE   BACTERIAL PROTECTION																												
Bacteria Removal	≥99.9999%																											
Cyst Removal	≥99.95%																											
MEETS US EPA BIOLOGICAL PURIFIER TEST STANDARD FOR REDUCTION OF BACTERIA & CYSTS																												
Chlorine, Chemical, Taste & Odor Removal																												
MEETS OR EXCEEDS ANSI/NSF 42																												

### CERTIFICATIONS AND PATENTS



Certified by IAPMO R&T to US EPA Microbiological Purifier test standard for the reduction of cysts, bacteria and viruses. Certified to NSF/ANSI 372 for lead free content.

Protected by the following US Patents: #6039305 #9162167 #D570457

**aquamira.**

917 West 600 North, Logan, UT 84321  
 ph: (877) 644-4650  
 www.aquamira.com  
 © Copyright 2016 Aquamira Technologies, Inc.

**aquamira.**



# INSERT: FRONTIER MAX INSTRUCTIONS

REV

DATE

DESCRIPTION

PM-015411A

-

12.17.2014

Initial Release

Pkg. Part #

Designer

Printing Stock

015411

ZP/SM

#18 White Matte

A

05.24.2016

CA Compliance Update

B

08.23.2017

Intro Name Fix

Flat Art Size

Finished Art Size

8.75" x 14.25"

8.5" x 14"

Inks

Other Applications



BLACK

**Aquamira Technologies, Inc.**

917 West 600 North, Logan, UT 84321

(877) 644-4650

www.aquamira.com

©2015 Aquamira Technologies Inc. All rights Reserved. This document contains proprietary information of Aquamira Technologies Inc. It's receipt or possession does not convey any rights to reproduce, disclose it's contents or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Aquamira Technologies Inc. is strictly forbidden.

