guzzle H2O®
pure water. no trash.

USERS MANUAL

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STREAM USERS MANUAL

TABLE OF CONTENTS

CONTENTS	PAGE
TABLE OF CONTENTS	1
HAZARD WARNING	2
STREAM WATER FILTRATION AND PURIFICATION KIT BOM	3
SYSTEM OVERVIEW	4
BATTERY CHARGING	5
VERIFY UV LIGHT FUNCTION	6
INITIAL SET UP	7
OPERATION - PRESSURIZED WATER FROM FAUCET	8
OPERATION - NATURAL WATER SOURCE	9
USING THE GUIDE PREFILTER	10
CHANGING CARBON BLOCK FILTER	11
STREAM SPECIFICATION AND CAPACITIES	13
FREEZING TEMPERATURES / LONG TERM STORAGE PREP	14
TIPS AND TROUBLESHOOTING	15

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WARNING

MICROBIOLOGICAL HAZARD

Human consumption of untreated water can lead to exposure to harmful microorganisms and an increased risk of gastrointestinal illness. Operating this filtration and purification device incorrectly increases your risk of exposure to harmful microorganisms and increases your risk of gastrointestinal illness. Reduce your chances of becoming sick by following the warnings and instructions in the operator's manuals.

Guzzle H2O products are designed to reduce unwanted bad taste & odor, chlorine, VOCs, lead, mercury, and other contaminant particles as small as 0.5 micron in size. Guzzle H2O products are 3rd party tested in accordance with US EPA Guidlines for Ultraviolet Disinfection to inactivate 99.99% of viruses, protozoa, and bacteria. Guzzle H20 products do not remove toxins, heavy metals, or treat chemically contaminated water, and will not make potable water from sources with these contaminants. The inlet hose, and prefilter apparatus should be kept away from the outlet hose to avoid cross contamination. When in doubt, treated drinking water should be tested by the user to verify its safety to consume.

LITHIUM BATTERY HAZARD

This product contains Lithium Iron Phosphate (LiFePO4) batteries. LiFePO4 batteries are volatile. Failure to read and follow the below instructions may result in fire, personal injury and damage to property if charged or used improperly. Use only the supplied charger to charge batteries. Never store or charge device in extreme temperatures. Never charge device unattended. Observe all shipping regulations that apply to Lithium Ion batteries.

STREAM MAY BE DAMAGED BY FREEZING TEMPERATURES DUE TO ICE EXPANSION
SEE INSTRUCTIONS FOR FREEZING PREP PG 13

STREAM WATER FILTRATION AND PURIFICATION KIT

KIT INCLUDES:

- STREAM FILTRATION/PURIFICATION UNIT
- CARBON BLOCK FILTER CARTRIDGE
- INLET HOSE (RED)
- OUTLET HOSE (CLEAR / BLUE)
- PRESSURE REGULATOR
- SCOUT 4” PREFILTER
- MESH BAG
- O-RING SPARES KIT
- BATTERY CHARGER 12V OR 110/240V

AVAILABLE ACCESSORIES:

- GUIDE PREFILTER
- KLICKITAT BAG
- 30’ OUTLET HOSE
- SPARES KIT

STREAM SYSTEM OVERVIEW

The Stream uses a three stage process to filter and purify drinking water.

The first stage is the 1 micron prefilter on the intake hose. This stage physically removes larger sediment particles.*

The second stage is an activated carbon block 0.5 micron filter. This stage physically removes particles large than 0.5 microns, and it chemically filters and absorbs bad taste, ordors, chlorine, lead, mercury, VOCs, sediment, and cysts.

The third stage is an LED UV-C purification chamber. This stage inactivates 99.99% of bacteria, protozoa, and viruses. UV-C photons penetrate cells and damage the nucleic acid, rendering them incapable of reproduction, and microbiologically inactive. The LED purification process relies upon the filtration stage to remove contaminants that may block or limit the penetration of UV rays.

The Stream also includes a pump with a pressure switch that allows it to sense if incoming water is pressurized, as from a water faucet, or if it is unpressurized, as in a typical natural water feature.

It also includes a rechargable battery for electrical power.

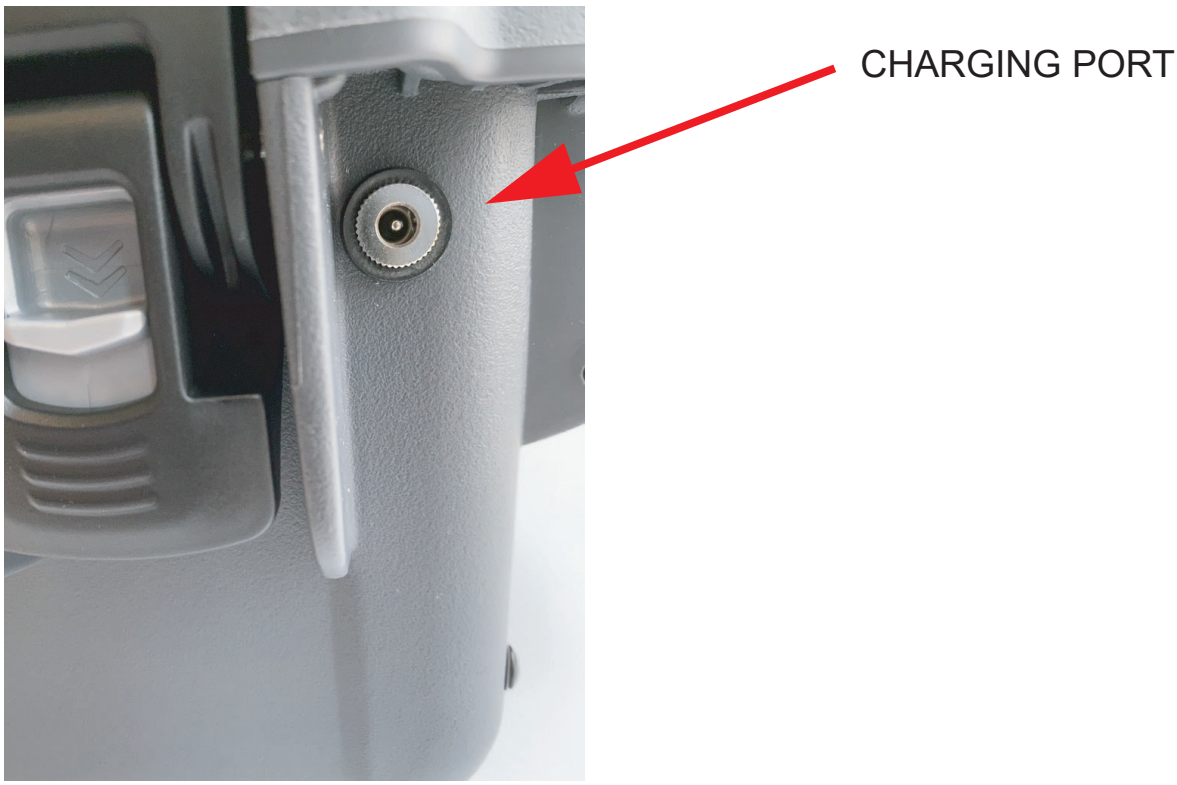
*OPTIONAL 0.35 micron GUIDE PREFILTER should be used in high sediment condtions.

BATTERY CHARGING

To reduce the risk of fire or electric shock, carefully follow these instructions:

1) Plug battery charger into charging port on STREAM and plug charger into 110/240v (50/60Hz) OR 12v plug (if using 12v charger).

Do not use other battery charging devices with this equipment other than those supplied by Guzzle H2O and indicated for use with the Stream.



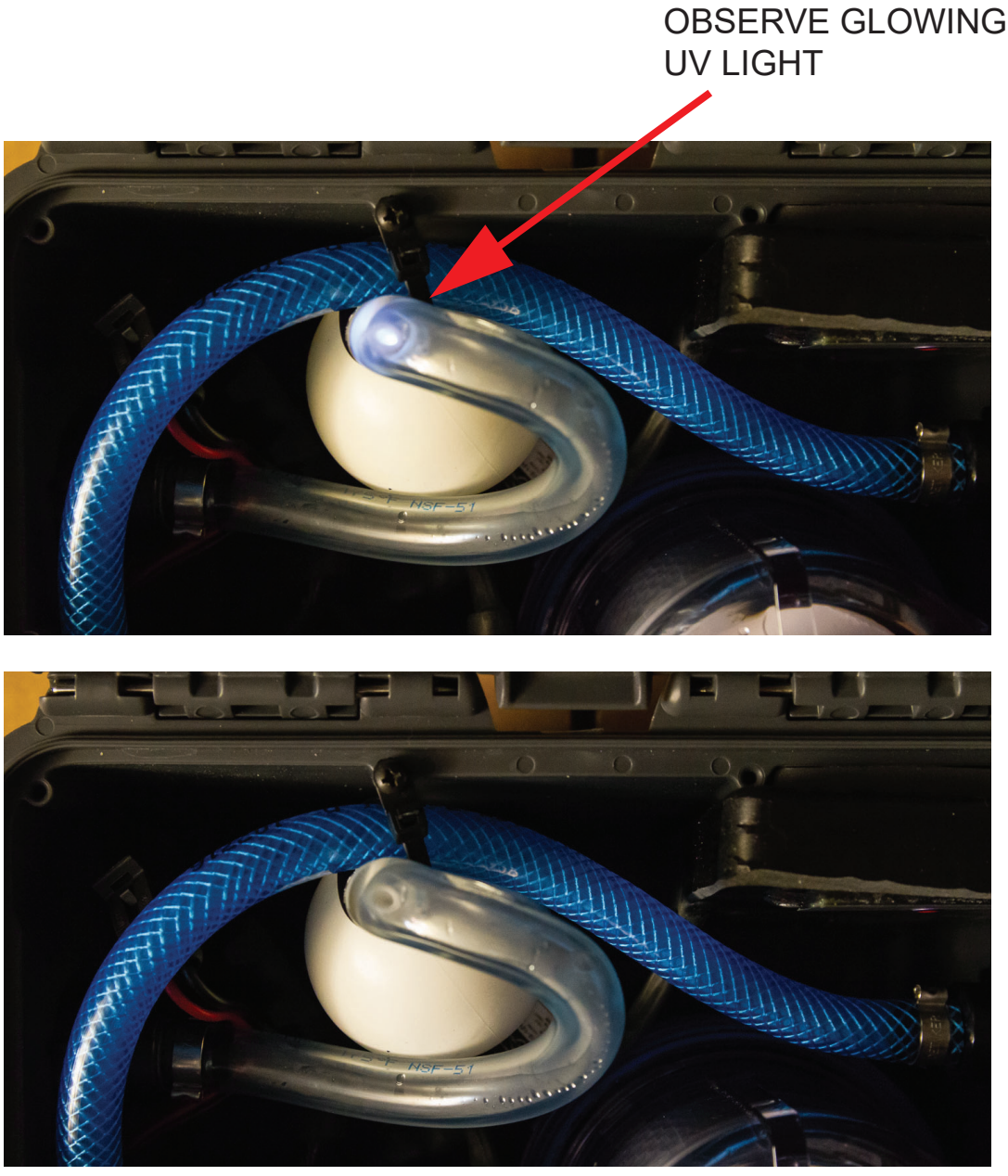
2) Charger will cut off power automatically if battery is full.

3) Indicator light on charger indicates charge status:
   a. RED LED - Charging
   b. GREEN LED – No battery connected or battery fully charged.

4) Charger is for indoor use only, never expose charger to water.

VERIFY UV LIGHT FUNCTION

Confirm that the UV light is functioning by observing the glow of the LED UV light through the clear hose. Momentarily switch on the Stream to illuminate the UV light. It may be necessary to bring the Stream to a dark or low light area to observe the glow. It may also be easier to see UV light if there is no water in the system.



INITIAL SETUP

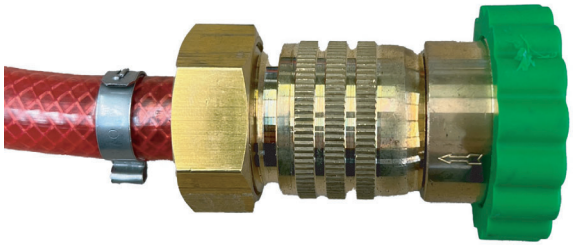
1) Charge system battery. (See CHARGING).

2) Plug RED intake hose into RED quick connect. Push firmly until connectors click.

3) Plug BLUE / CLEAR outlet hose into BLUE quick connect. Push firmly until connectors click.

OPERATION – PRESSURIZED WATER FROM FAUCET

1) Thread hose fitting (3/4” GHT) on red intake hose on to pressure regulator. Failure to use pressure regulator may lead to flow rates that are too high for adequate disinfection.

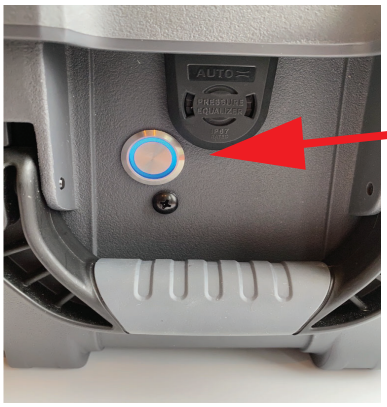


2) Thread PRESSURE REGULATOR onto water faucet.

3) Press power button to start flow of water. On initial set up it may take up to 60 seconds for air to purge from system.

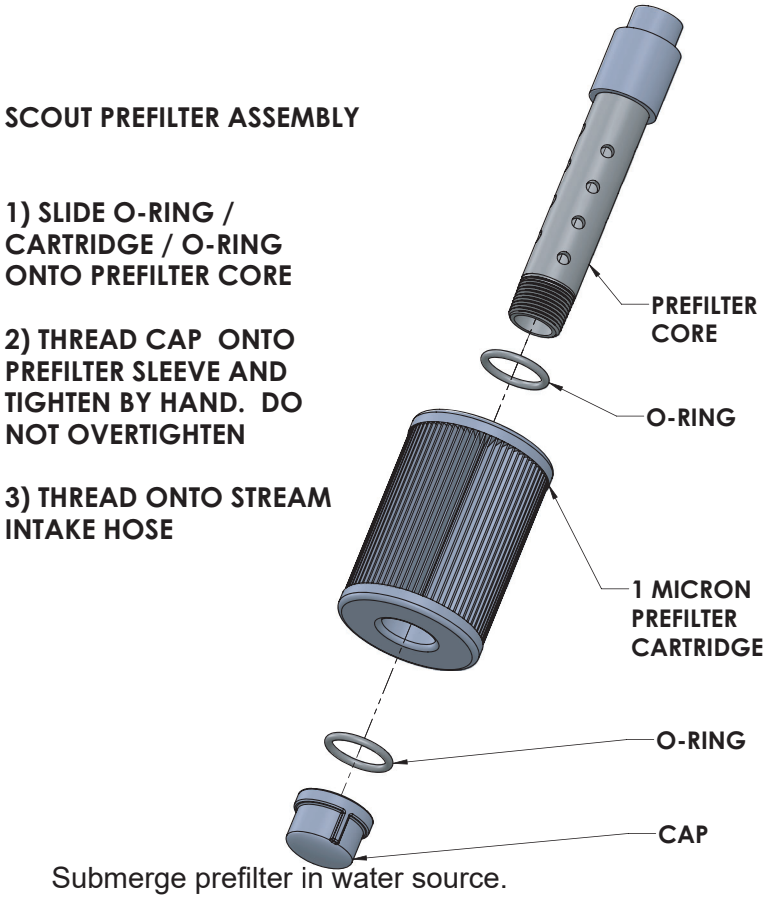
NOTE: Pump will not run when operating in pressurized water mode. Reduced power requirements will extend battery life.

4) Press power button again to stop the flow of water.



OPERATION – BACKCOUNTRY WATER SOURCES (LAKES, RIVERS, ETC)

1) Assemble the prefilter:



2) Submerge prefilter in water source.

3) Push power button to start the flow of water. On initial set up it may take up to 60 seconds for air to purge from system.

4) Press power button again to stop the flow of water.

OPERATION – HIGH SEDIMENT CONTENT WATER - GUIDE PREFILTER

(AVAILABLE SEPERATELY)

USE THE GUIDE PREFILTER for water sources that have high sediment content, or for river water that may have suspended fine particles. The GUIDE prefilter will protect and extend the life of the internal carbon filter in these conditions. Allow sediment to settle out of water sources as much as possible.

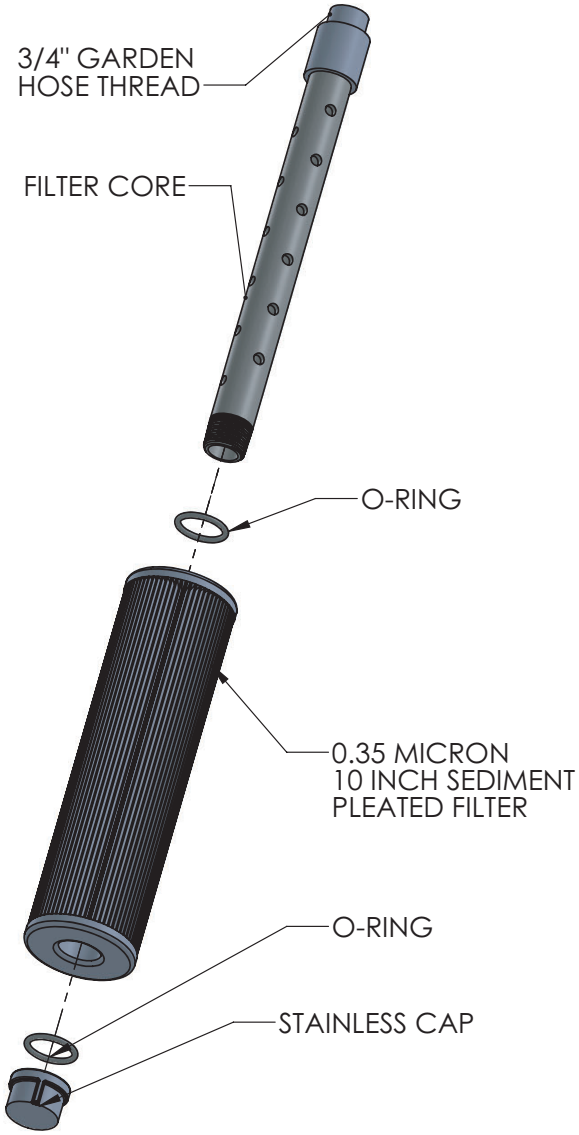
GUIDE PREFILTER ASSEMBLY

1) SLIDE O-RING / CARTRIDGE / O-RING ONTO PREFILTER CORE

2) THREAD STAINLESS STEEL CAP ONTO PREFILTER CORE AND TIGHTEN BY HAND. DO NOT OVERTIGHTEN.

3) THREAD GARDEN HOSE CONNECTION ONTO STREAM INTAKE HOSE.

4) CLEAN PREFILTER BY RINSING IN WATER.



INSTALLING OR CHANGING THE CARBON BLOCK FILTER

WHEN TO CHANGE THE CARBON BLOCK FILTER CARTRIDGE:

Carbon block filter cartridge should be changed after 1000 gallons of use, or after 6 months. Actual capacity may vary depending upon quality of water filtered. Reduced water flow rate through the Stream is an indication that the carbon block filter cartridge should be changed. The carbon block filter cartridge may be visually inspected through the clear filter housing. **Failure to use a carbon block filter will reduce ability to disinfect water.**

HOW TO INSTALL THE CARBON BLOCK FILTER CARTRIDGE:

1) Open the lid of the Stream. Connect the inlet and outlet hoses to the Stream, and run the system for 10 seconds with the inlet hose drawing air, and pumping any residual water out of the filter cannister. Allow any pressure to disperse.

2) Disconnect the hoses, and invert the Stream so the lid side is down. Unscrew the carbon block filter housing. Locate the o-ring on the perimeter of the cannister, and check that cannister gaskets are removed from housing and base. Drain water and remove and discard carbon block element.

HOW TO INSTALL THE CARBON BLOCK FILTER CARTRIDGE (CONT):

3) Place a new carbon block filter element in the cannister. Continue to hold the Stream with the lid side down. Ensure top and bottom gaskets are in place, and filter cartridge is centered on mounting posts. Make sure cannister o-ring is properly seated and cartridge gaskets are in place. Thread the cannister onto the filter housing base. Tighten cannister firmly, making sure o-ring seats and seals.

4) Set up Stream for Pressurized or Unpressurized Operation, and turn on and run for 5 minutes, checking for leaks, and allowing any carbon fines to flush out of new carbon block filter cartridge.

REPLACEMENT CARBON BLOCK CARTRIDGE

Guzzle H2O 5” Carbon Block Cartridge

Pentek CB-5

PRODUCT SPECIFICATIONS AND CAPACITIES

MAXIMUM FLOW RATE; TAP WATER: 1.1 GALLONS (4 LITRES) / MIN

MAXIMUM FLOW RATE; PUMPING WATER: .7 GALLONS (2.7 LITRES) / MIN

BATTERY RUN TIME: 50 MINUTES

TREATED WATER CAPACITY, PER BATTERY CHARGE, TAP WATER: 90 GALLONS

TREATED WATER CAPACITY, PER BATTERY CHARGE, PUMPING WATER: 32 GALLONS

FLOW RATES AND CAPACITIES ARE FOR IDEAL CONDITIONS. FLOW RATES AND CAPACITIES MAY BE REDUCED BY CARBON BLOCK FILTER AGE, WATER PRESSURE, HEAVY SILT

BATTERY TYPE: LiFEPO4 3000mAH

ACTIVATED CARBON BLOCK FILTER 0.5 MICRON NOMINAL

4.95 X 2.875 INCH SIZE

REDUCES: sediment, chlorine taste and odor, VOCs, NSF 41 emerging contaminants, lead, mercury, and other chemical contaminants. Will not remove heavy metals or toxins

1000 gallon / 6 month capacity

LED UV-C PURIFICATION: 99.99% REDUCTION IN PROTOZOA, BACTERIAL, AND VIRUSES

Based on 3rd Party Testing to US EPA Ultraviolet Disinfection Guidance Manual

Tested and Certified by NSF International against NSF Standard 55 for Materials and Structural Integrity

10,000 hour lifespan

PREFILTER 1 MICRON PLEATED

INTAKE 3/4” FGHT

PRESSURE REGULATOR 50 PSI

NSF LISTED AND FDA APPROVED MATERIALS

WATERPROOF IP 67 EXTERIOR

FREEZING TEMPERATURE / LONG TERM STORAGE PREP

STREAM MAY BE DAMAGED BY FREEZING TEMPERATURES DUE TO ICE EXPANSION

WATER MUST BE REMOVED FROM STREAM TO PREVENT DAMAGE FROM ICE EXPANSION.

1) Follow inital set up instructions to install inlet and outlet hoses. Allow inlet hose to ingest air. (Do not submerge or connect inlet hose to water source.) DO NOT install PRESSURE REGULATOR or PREFILTER to inlet hose.

2) Open lid.

3) Push power button to turn on STREAM. Pump should run. Observe water drain out of carbon block filter housing. Run Stream for 30 seconds. Push power button again to turn OFF power.

4) Invert and hold the STREAM with the lid facing down. Unscrew the carbon block filter housing and remove the carbon block filter cartridge. Find the o-ring housing seal. Set aside and allow to dry.

5) Reinstall carbon block filter housing, ensuring o-ring seal is seated in groove. Place STREAM with the lid side up.

6) Push power button to turn on STREAM. Pump should run.

7) As the pump continues to run, observe remaining water is coming out of STREAM. Continue for 60 seconds or until no water comes out outlet hose. Change orientation of STREAM to place handle up. Run for up to 60 seconds to pump remaining water out of STREAM. Continue for 60 seconds or until no water comes out outlet hose.

8) Disconnect hoses, drain water from them. Store carbon block cartridge separate from STREAM.

9) For long term storage, allow hoses, carbon block filter cartidge, and the interior of STREAM CASE to thoroughly dry.

TIPS AND TROUBLE SHOOTING

ALWAYS USE PRE FILTER when operating the STREAM with natural sources of water. Ingesting large debris, rocks, or sand can damage pump. For high sediment water, protect the carbon filter with the optional GUIDE PREFILTER. See Page 10.

ALWAYS USE PRESSURE REGULATOR when operating the STREAM with pressurized water. Excess pressure increases the flow rate and will result in lower rates of filtration and disinfection.

PUMP PULSING ON AND OFF IS NORMAL. The pump may cycle on and off as it builds up pressure against the carbon block filer.

DO NOT TURN ON WITHOUT WATER FLOW. Waterflow is required to cool LED UV unit. Operating the STREAM for extended times without waterflow can damage UV unit.

DRAIN WATER FOR FREEZING TEMPERATURES Water must be removed from STREAM to avoid damage from freezing temperatures. See page 13 for instructions.

VERIFY UV OPERATION by powering on the STREAM in a dark location. UV unit will visibly glow indicating that LED bulbs are illuminating.

KEEP LID CLOSED during normal operation. The internal parts of the STREAM are splash proof, but it will protect the critical components from moisture, weather, and dirt if the lid of the STREAM remains closed.

CLEAN PREFILTER IN SILTY CONDITIONS. The membrane on the prefilter may be cleaned while it is submerged in the water source. Turn off power to STREAM to stop suction. Agitate, and/or gently scrub accumulated silt and sediment off of membrane. It is designed to be cleaned and reused.

MINIMIZE SILT INTAKE. Always attempt to reduce the amount of silt that enters the STREAM. Silt will be filtered by the carbon block filter, however this will reduce the lifespan of the carbon block filter cartridge. Methods to minimize silt include gravity settlement, or flocculation treatment with aluminum sulfate.

CARRY A SPARE CARBON BLOCK FILTER. Carbon block filter cartridge is not field cleanable, replace if it becomes completely clogged.

PURGE AIR FROM STREAM by running STREAM in orientation with handle up or alternately lid down.

END

OF

MANUAL

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