guzzle H2O STEALTH Carbon Block Filtration and UV Water Purification User Manual

Contents

guzzle H2O®
pure water. no trash.

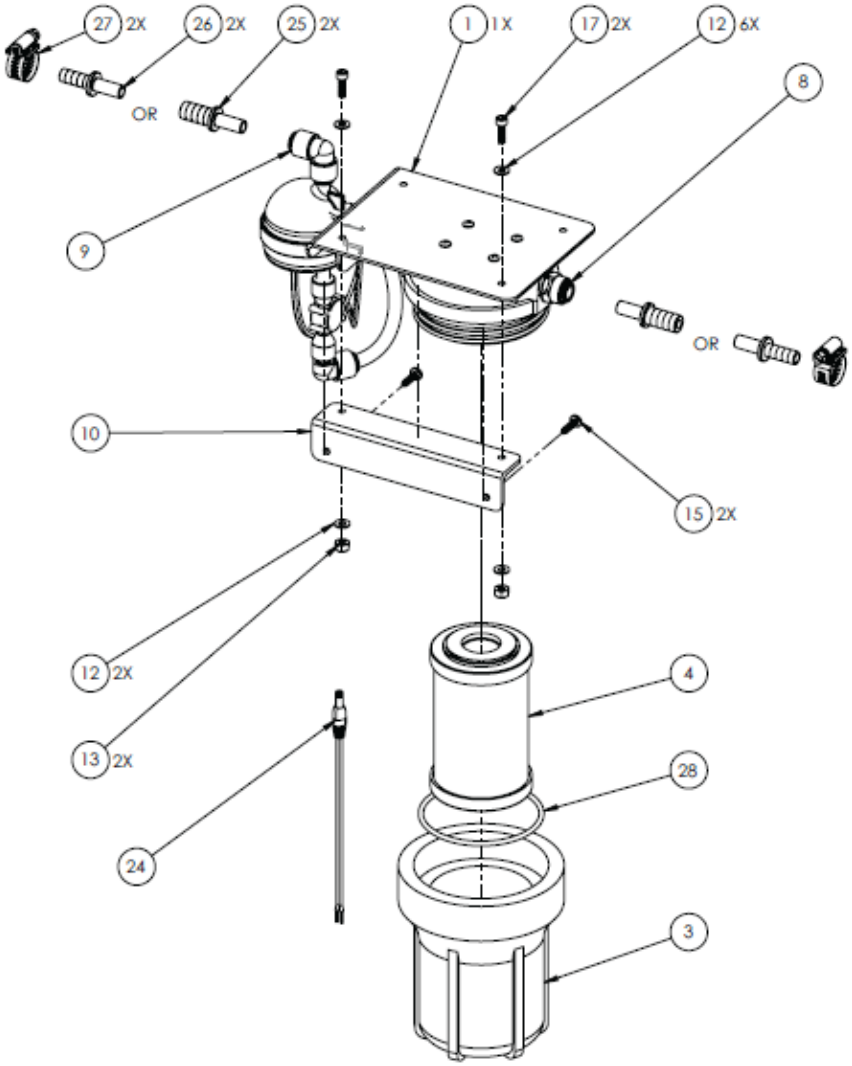
guzzle H2O STEALTH Carbon Block Filtration and UV Water Purification

INSTALLATION

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.

STEALTH PART IDENTIFICATION

ITEM NO.	DESCRIPTION	QTY.
1	MOUNTING PLATE, BIDIRECTIONAL, STEALTH 2.0, ALUMINUM, ANODIZED, BLACK	1
3	5 INCH FILTER HOUSING CANNISTER	1
4	CARBON BLOCK CARTRIDGE	1
8	INLET, 3/8 PUSH TO CONNECT	1
9	OUTLET, 360 DEGREE SWIVEL, 3/8 PUSH TO CONNECT	1
10	MOUNTING BRACKET, ANGLE AL, ANODIZED BLACK	1
12	WASHER, FLAT BLACK OX SST	4
13	HEX NUT, NYLOCK, 10-24, 18-8 SST BLACK OX	2
15	WOOD SCREW, PHIL HEAD, NO 10, 0.75 LG, 316 SST	2
17	SHCS, 0.190-24, 0.625 LG, 18-8 SST, BLACK OX	2
24	POWER CABLE, 15′	
25	STRAIGHT ADAPTER, .375 TUBE X .5 BARB	2
26	STRAIGHT ADAPTER, .375 TUBE X .375 BARB	2
27	HOSE CLAMP, WORM DRIVE, SST	2
28	O-RING, FILTER CANNISTER SEAL	1



STEALTH SYSTEM OVERVIEW

System layout:
The Stealth should be installed on the cold water line between the pump or pressure tank and the point of use faucet. Ideally the Stealth should be the last thing the water passes through before the faucet. Water should enter through the Inlet (8). Water exits through the Outlet Elbow Swivel (9).

Mounting:
The Mounting Bracket Angle (10) may be attached to the Mounting Plate (1) on either side to accommodate the inlet connection (8) on either the right hand or left hand side to accommodate the incoming plumbing configuration. The Outlet Elbow (9) may be swiveled 360 degrees to leave acommodate outlet plumbing.

Electrical Supply
The Stealth requires 12v power supply, drawing 2 amps when activated. A 2 amp fuse is recom-mended. See Page 8 for Wiring Diagram.

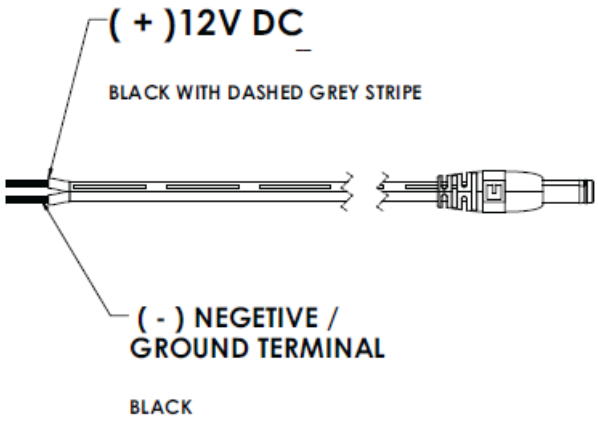
Operation:
The Stealth has a flow sensing switch which detects water flow and instantly turns itself on. The Stealth will sense that water is moving when you open the faucet. It draws minimal power when it is in standby mode. LED technology allows it to instantly switch on the UV chamber with no warm up necessary.

STEALTH INSTALLATION

1. Turn off water supply, and/or all pumps supplying pressure to the water system.

2. Determine plumbing layout. Stealth may be mounted with inlet (8) on the right or left hand side of the unit. Outlet elbow (9) may swivel 360 degrees to accommodate outlet plumbing. Plan for adequate space for inlet and outlet plumbing to have a clean approach, and to be secured to minimize movement and vibration when installation is complete.
3. Install Mounting Bracket (10) to mounting surface. Using the Mounting Bracket as a template, mark 2 screw locations and drill pilot holes with a 3/32 (0.094) inch drill bit. Install Mounting Bracket (10) with provided Wood Screws (15). If mounting in a materi-al other than wood or plastic, substitute appropriate fasteners.
4. Unscrew the Filter Housing Cannister (5) and set aside.
5. Using Socket Head Cap Screw (17), Washers (12), and Hex Nuts (13) attach the Mounting Plate (1) to the Mounting Bracket Angle (10). The Stealth may be mounted using the holes on either side to orient the inlet and outlet appropriately for the installa-tion plumbing.
6. Select appropriate size barbed fitting (25 or 26) for inlet and outlet hose. Install the Barbed Fittings (25 or 26) into inlet and outlet hoses. Use provided hose camps (27) to secure hose on barbed fittings.
7. Connect power cable cable (15) to power supply. Cable with dashed grey stripe connects to positive (+) terminal (see page 8). Blank cable connects to negative (-) terminal. Connect barrel plug to underside of UV unit. Green indicator LED shows UV is connected to power and in STANDBY mode.
8. Install Carbon Block Cartridge (4) and Cartridge Housing (3) making sure Oring
9. Turn on water supply. Determine that there are no leaks.
10. Test operation. Blue indicator LED should illuminate when water flows, indicating UV system is active. Blue LED should turn off when water flow stops.

WIRING DIAGRAM



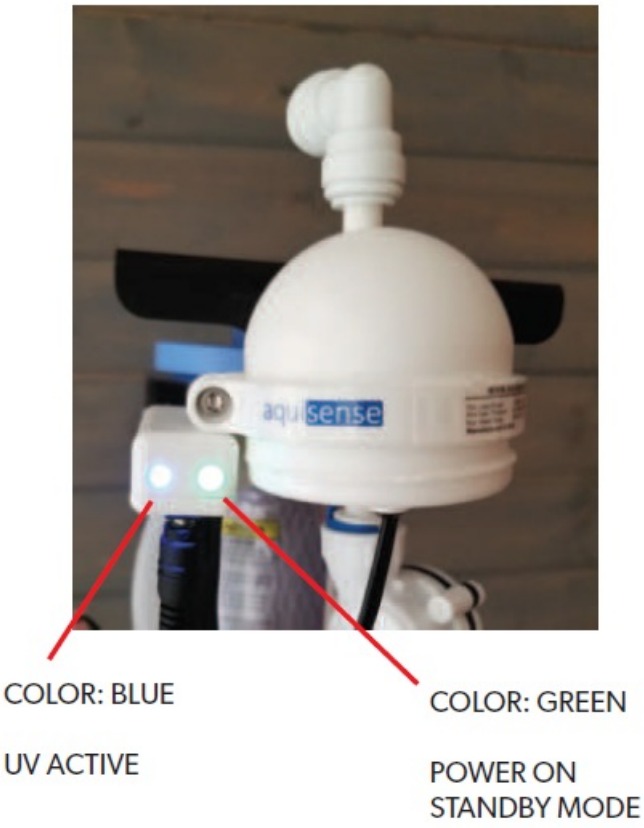
- **POWER CABLE:** 2 X 16 AWG (ITEM 24)
- **BLACK W/ GREY DASH:** POSITIVE (+)
- **BLACK:** NEGETIVE (–)

STEALTH OPERATION

When power is connected to the Stealth, the green indicator LED illuminates to indicate it is on STANDBY MODE (see page 8). In this mode, the Stealth is ready to purify water, but has not yet activated the UV purification chamber. The UV purification function of the Stealth activates automatically by sensing water flow and activating the UV purification chamber when water is moving. A few seconds after the water stops, the Stealth turns the purification chamber off. Water flow typically is started and stopped by using your faucet. UV purification activity is indicated by the BLUE LED indicator light. LED technology allows the UV purification chamber to instantly activate

and perform at full effectiveness. The UV chamber does not require any time to “warm up.” The Stealth can be left on STANDBY MODE indefinitely. The UV function should only activate when water is running.

INDICATOR LIGHTS



CHANGING THE CARBON BLOCK CARTRIDGE

Carbon block filters should be changed after 1000 gallons of use. Actual capacity may vary depending upon quality of water filtered. Reduced water flow rate through filter or at the faucet is an indication that the carbon block filter element should be changed.

HOW TO CHANGE CARBON BLOCK CARTRIDGE

Turn off water pump, and open faucet to drain and depressurize water line. Place a bucket or towel below Stealth to catch any water that may drain. Unscrew carbon block filter cannister (3). Use a filter wrench if necessary. Locate the o-ring (28) on the perimeter of the cannister. Drain water and remove carbon block element (4) . Place new carbon block filter element in the cannister. Make sure cannister o-ring (28) is properly seated and cartridge gaskets are in place. Thread the cannister onto filter housing base. Make sure top and bottom of filter cartridge is centered on mounting See below for list of acceptable replacement filters. Tighten cannister firmly, making sure o-ring seals. Turn on water pump, let water run. Run 5 gallons of water through system to dislodge and remove any loose carbon fines. Close faucet and check for leaks.

Replacement Carbon Block Cartridges

Guzzle H2O 5” Carbon Block Cartridge
Pentek CB-5

LED CHAMBER LIFESPAN

The LED UV chamber has a lifespan of 10,000 hours of activated operation. It does not need to be replaced as a maintenance item. Contact Guzzle H2O should you require replacement

WARNING

FREEZING TEMPERATURES CAN DAMAGE STEALTH AND CAUSE WATER SYSTEM LEAKS AND DAMAGE
Temperatures below 32F (0C) can damage the Stealth causing leaks and loss of peformance. Follow

WINTERIZATION PROCEDURES to
prepare Stealth for freezing conditions.

WINTERIZATION PROCEDURES

In below freezing temperatures, water MUST be removed from the Stealth or damage may occur to the UV unit. Follow these guidlines in addtion to any recommendations that may come with the rest of your water system.

1. Unscrew FILTER HOUSINGS (3) and drain water. Remove CARBON BLOCK CARTRIDGE(4) and set aside to dry for storage.
2. Open faucet. Use an air compressor to inject air into the outlet hole in the center of the filter housing base nearest the UV unit.. Pulse air into the outlet hole as shown on page 12 to push air and water out through the UV unit. Water should come out of open faucet. Pulse air until no more water is expelled through faucet, and water is removed from UV unit.
3. Reinstall the HOUSING (3) without the CARBON BLOCK CARTRIDGE (4). Allow CARBON BLOCK FILTER (4) to dry, and store for reinstallation.

ALTERNATIVELY TO THIS PROCEDURE, anti-freeze fluid may be used to protect the StealtH from freezing conditions. Remove CARBON BLOCK CARTRIDGE (4) and follow manufacturer instructions for distributing food safe anti-freeze fluid throughout the system including the Stealth to prevent water from freezing.

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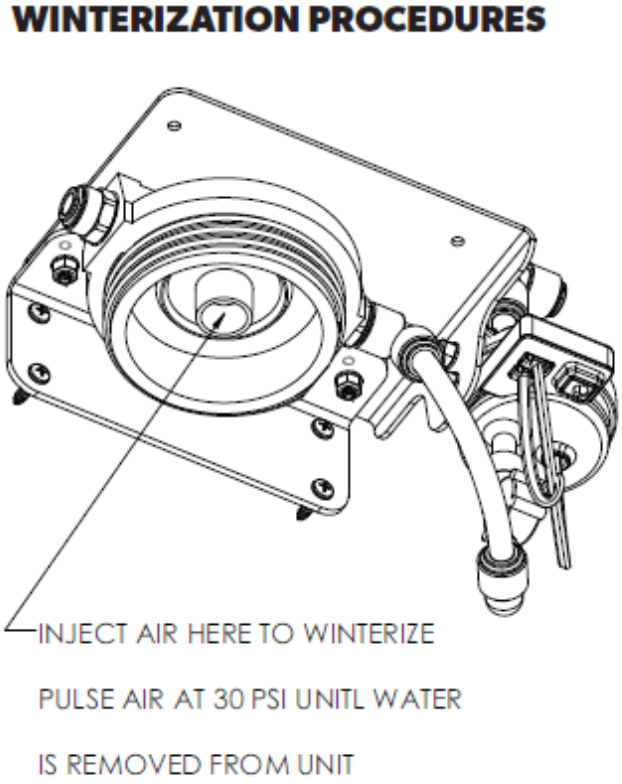

STEALTH SYSTEM TRICKS AND TROUBLE SHOOTING

1. Secure all hoses and cables connecting to the Stealth. Loose and vibrating connections can lead to water

leaks and faulty electrical connections.

2. After replacing carbon filter cartridge with a new filter, some visible black carbon fines may be dislodged in new carbon filter. This is normal, allow approximately 5 gallons of water to pass to remove carbon fines.
3. For best performance, filter and purify water as close to point of use as possible. The Stealth should be the last thing your drinking water passes through before faucet. For whole system filtration, consult Guzzle H2O.
4. For installation, consider ease of access, max length and minimum bend radius of piping, elec-trical connnections when selecting installation location. Use appropriate pipe and tubing compat-ible with supplied barbed fittings.
5. Carbon filter will cause a pressure drop in line pressure as it filters water. This may cause automatic pressure water pumps to cycle on and off as pressure limit is reached. This is normal. Adjust pump pressure to accommodate, or consult Guzzle H2O for higher flow options.
6. Stealth should be installed in a protected, watertight area. It is not made for outdoor installa-tion.
7. To disconnect push to connect inlet and outlet fittings, depress collar around tube, and pull tubing insert.
8. Periodically clean onboard water tanks by shock treating with bleach or chlorine. This will reduce buildup of contaminants. The carbon block filters will do an excellent job of removing any residual chlorine from cleaning efforts.
9. The Stealth requires water to be running while it is activated in order to cool internal LED com-ponents.

FOR SUPPORT OR TECHNICAL ASSISTANCE FROM GUZZLE H2O PLEASE EMAIL US AT
INFO@GUZZLEH2O.COM

PRODUCT SPECIFICATIONS AND CAPACITIES

MAXIMUM FLOW RATE; TAP WATER: 2.1 GALLONS (8.0 LITRES) / MIN
FLOW RATES AND CAPACITIES ARE FOR IDEAL CONDITIONS. FLOW RATES AND CAPACITIES MAY BE REDUCED BY CARBON BLOCK FILTER AGE, WATER QUALITY
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
- **change after:** 1000 gallon / 6 month use

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

- MAXIMUM SYSTEM PRESSURE 120 PSI (8.3 Bar)
- MINIMUM SYSTEM PRESSURE 30 PSI
- SYSTEM TEMPERATURE MIN: 32F (0C) / MAX 113F (45C)
- POWER DRAW ACTIVE 2 AMP
- POWER DRAW STANDBY MODE 0.1 AMP
- NSF LISTED AND FDA APPROVED MATERIALS

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WA USA

Documents / Resources

	guzzle H2O STEALTH Carbon Block Filtration and UV Water Purification [pdf] User Manual STEALTH Carbon Block Filtration and UV Water Purification, STEALTH, Carbon Block Filtration and UV Water Purification, Block Filtration and UV Water Purification, UV Water Purification, W ater Purification

References

- Guzzle H2O Drinking Water Systems - Carbon Block & LED UV Purification