



GLASCO UV

APPLICATIONS

- Private home wells
- Schools
- Cottages / Camps
- Businesses
- Light industrial

UV BENEFITS

- Chemical free
- Effective on wide range of microorganisms
- Economical - energy efficient
- Easy to service
- Proven safe technology
- US EPA accepted tech

WATER QUALITY

- 5 micron pre-filter
- Turbidity: 5 NTU
- Color: None
- Iron: 0.3 ppm
- Solids: 10 mg/l
- Manganese: 0.05mg/l
- pH: 6.5 – 9.5
- Hardness: 7 grains
- Tannins: < 0.1ppm
- UV trans.: >75%

SUPPLIES NEEDED

- Screws to mount unit
- Teflon tape
- Proper fittings / unions
- Shut-off valves



UV DISINFECTION

Residential / Commercial

- Manufactured in USA
- Heavy duty stainless steel construction
- 10 year chamber warranty
- Audible and visual lamp indicator
- Lamp countdown timer

HOW UV DISINFECTION WORKS

The technology uses a special UV lamp to target and disable harmful water-borne disease causing microorganisms (pathogens).

Over 100 years ago, scientists found that when pathogens were exposed to UV light, their reproduction was limited. The light resided in the UVC range of the spectrum. Specifically, they discovered that light in the 254 nanometer (nm) range was the most effective.

When pathogens are exposed to UV light, their cells become damaged and this inhibits reproduction. UV light damages the cell's DNA and RNA and once damaged, they are unable to replicate and therefore, rendered harmless.

The amount of damage is a result of the intensity of the UV light multiplied by the time the water is exposed to the light (time x intensity). The dosage, referred to as microwatts, is often expressed as mJ/cm². A 40,000 microwatt dose (40 mJ) is accepted for water disinfection.

UV EFFECTIVE ON:

- Bacteria
- Viruses
- Fungi
- Algae
- Protozoa

SPECIFIC MICROORGANISMS

- Cryptosporidium
- Giardia
- Cholera
- Salmonella
- E-coli
- Fecal Coliform
- Coliform bacteria

GUV "SHIELD" SERIES



FREQUENTLY ASKED

What happens to the microorganisms after they exposed to UV light?

UV prevents microorganisms from reproducing and that is what makes them harmless. They are still present in the water, but are no longer a health risk.

Is UV light dangerous?

Just like sunlight, the light used for disinfection (UVC) is dangerous to both eyes and skin. Exposure to UVC light will cause harm, so systems are designed to protect the end user from being exposed.

How is the lamp protected from the water?

The lamp does not come in contact with the water. It is placed into a glass like tube called a quartz sleeve. This material allows UV light to transmit into the water. Depending on water quality, the sleeve will need to be cleaned on a periodic basis.

What type of maintenance is involved?

The actual lamp needs to be replaced on a yearly basis. While the lamp may glow for years, it only produces UVC light for a year. Systems run 24 hours a day.

Does UV disinfection change the water?

UV light does not change the taste, color or odor of water. Since it is a chemical free process, nothing is put into or taken out of the water.

GLASCO

For over 50 years, Glasco UV has been manufacturing the highest quality UV disinfection systems on the market. Glasco also manufacturers systems for treating industrial and municipal water and wastewater.

FEATURES

- Manufactured in USA
- 304L electropolished SS
- 100 psi pressure rating
- MNPT fittings
- Flow control device (not on 20-50)
- Remote power supply
- Audible lamp out alarm
- Lamp countdown timer
- Lamp change reminder
- 9,000+ hour lamp
- GE Type 214 quartz sleeve
- Built in mounting brackets
- 120 - 220 Volt

GUV SHIELD with manual quartz wiping system (GUV-SHIELD-MAN)



"SHIELD - 20 - MAN"

The GUV SHIELD MAN system comes with an integral manual quartz sleeve wiping system. A manual wiping system helps remove build up on the protective quartz sleeve. Fouling occurs when the water has impurities like minerals. High iron and hard water can coat the quartz sleeve and interfere with the proper transmission of UV light.

The manual wiper allows the operator to periodically clean the sleeve.

OPTIONS

- Manual quartz wiper
- Lamp out contact for alarm / solenoid
- UV monitoring system
- Solenoid shut off valve
- Remote audible/visual alarm

UNIT	GPM	LPM	INLET / OUTLET	WATTS	POWER 120V 50/60 Hz	DIMENSIONS (L x W x H)	SHIPPING WEIGHT	SHIPPING DIMENSIONS
SHIELD-7	7	27	3/4" MNPT	17	.6 amp	18" x 5" x 7"	10 lbs	22" x 9" x 9"
SHIELD-10	10	38	3/4" MNPT	32	.7 amp	18" x 5" x 7"	10 lbs	22" x 9" x 9"
SHIELD-15	15	57	3/4" MNPT	42	.75 amp	37" x 5" x 7"	16 lbs	39" x 9" x 9"
SHIELD-20	20	76	1" MNPT	80	1 amp	37" x 5" x 7"	17 lbs	39" x 9" x 9"
SHIELD-30	30	114	1 1/2" MNPT	90	.75 amp	37" x 7" x 8"	29 lbs	43" x 15" x 14"
SHIELD-50	50	189	2" MNPT	160	2 amp	37" x 7" x 8"	30 lbs	43" x 15" x 14"

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SHIELD-10-MAN	10	38	3/4" MNPT	32	.7 amp	18" x 5" x 7"	10 lbs	39" x 9" x 9"
SHIELD-15-MAN	15	57	3/4" MNPT	42	.75 amp	37" x 5" x 7"	20 lbs	43" x 15" x 14"
SHIELD-20-MAN	20	76	1" MNPT	80	1 amp	37" x 5" x 7"	21 lbs	43" x 15" x 14"
SHIELD-30-MAN	30	114	1 1/2" MNPT	90	.75 amp	37" x 7" x 8"	33 lbs	43" x 15" x 14"
SHIELD-50-MAN	50	189	2" MNPT	160	2 amp	37" x 7" x 8"	34 lbs	43" x 15" x 14"

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