

# HALO UV SERIES

## Ultraviolet Sterilization

UV sterilization is an environmentally friendly alternative to chlorine disinfection and has no disinfection byproducts. UV sterilization works night and day, 24/7. Water flows through the system without need for a holding tank or reaction times. UV is as effective than chlorine or chloramines with low electrical needs. UV is one of only 4 methods approved for disinfection by US Food & Drug Administration (FDA). The UV sterilization process does not waste any water.

### What does a UV disinfection remove?

UV disinfection deactivates living organisms, such as bacteria, viruses, spores, and cysts, but it does not remove particles from water, add chemicals, or remove bad tastes and odors. UV light works by putting energy into the water that interacts with the microorganisms as they pass around the UV lamp, inactivating their DNA so they can no longer reproduce.

### UV disinfection treats water for:

- E coli
- Cholera
- Fungi
- Cryptosporidium
- Dysentery bacilli
- Mycobacterium tuberculosis
- Hepatitis B
- Algae
- Viruses.
- Giardia
- Salmonella
- Streptococcus



Water quality is extremely important for the optimum performance of your UV system. The following levels are recommended for installation:

- Iron: <0.3 ppm (0.3 mg/L)
  - Hardness \*: < 7 GPG (120 mg/L)
  - Turbidity: < 1 NTU
  - Manganese: < 0.05 ppm (0.05 mg/L)
  - Tannins: < 0.1 ppm (0.1 mg/L)
  - UV Transmittance: > 75%
- (Call factory for recommendations on applications where UVT < 75%)

- H-UV12-HD:** Ultraviolet System
- H-UV12-SLEEVE-HD:** Quarts sleeve
- H-UV12-LAMP-HD:** Replacement bulb
- H-UV12-BALLAST-HD:** Ballast

SCAN FOR MORE INFO



HALO UV

**\* Where total hardness is more than 7 gpg, the UV unit should operate efficiently provided the quartz sleeve is cleaned periodically. If total hardness is over 7 gpg, the water should be softened or treated.**

If your water chemistry contains levels in excess of those mentioned above, proper pre-treatment is recommended to correct these water problems prior to the installation of your UV disinfection system. These water quality parameters can be tested by your local contractor, or by most private analytical laboratories. Proper pre-treatment is essential for the UV disinfection system to operate as intended.

## Installation at a glance (H-UV12-HD)

**Flow Rate:** 12 gpm

**Pipe Size:** .75"

**Center Line:** 30"

**Dimensions:** 18 x 6 x 5.375

**Electrical:** 110-130V / 50-60 Hz

**Connection:** 1"

**H-UV12-Sleeve every 3 years**

**H-UV12-Lamp 1 per year**

