# Excelfolt 

UV Disinfection by Waterite Technalagies Mии, waterite.cam

## UItraviolet Disinfection Systems



EL411AK (4-11 GPM)


WARNING


EL720AK (7-20 GPM)


EL1129AK (11-29 GPM)

> Waterite Technologies, Inc. introduces the Excelfght ${ }^{\text {TM }}$ family of point-of-entry (POE) ultraviolet disinfection systems designed for ease of installation and simple operation, each with a full list of standard features:

- Canadian-made $115 \mathrm{~V} / 60 \mathrm{hz}$ CSA approved ballast
- Lamp failure alarms - audible and visual
- Lamp change countdown clock and 7-day override feature
- Quality 304 stainless steel mirror-polished chamber
- 9000-hour rated UV lamp with 4-pin connector
- Crystal quartz sleeve with silicone o-rings
- Detailed installation and maintenance manual
- Easy wall-mount installation clips
- Each unit is equipped with all necessary hardware for trouble-free installation

Waterite strongly recommends that you have your raw water professionally tested for dissolved mineral content, turbiditity and microbiological activity. Your UV disinfection system requires clean, clear water for optimum performance. You should only operate your unit if the source water meets the minimum operating parameters.

# Excelloft <br> UVDisinfection by <br> Waterite Technalagies <br> MMu, waterite.com 

## A NOTE ON UV DOSAGES

The intensity of UV light exposure to water flowing through the UV system, or UV dosage, will vary with the rate of flow. Disinfection chamber hydraulic performance may limit maximum flow rate. Flow restrictors may be used to limit flow rate through systems to ensure a minimum dosage.

A $16 \mathrm{~mJ} / \mathrm{cm}^{2}$ dose is considered suitable for reducing non-pathogenic nuisance organisms only, though many pathogens will be eliminated at this dosage.
A $30 \mathrm{~mJ} / \mathrm{cm}^{2}$ is the dosage typically produced by a system when designed using the 1966 US Department of Health Policy Statement.
A $40 \mathrm{~mJ} / \mathrm{cm}^{2}$ dosage is required by NSF/ANSI Standard 55 .
Approximate Excelīghtiv dosages

| Excelight ${ }^{\text {TM }}$ Model | $16 \mathrm{~mJ} / \mathrm{cm}^{2}$ | $30 \mathrm{~mJ} / \mathrm{cm}^{2}$ | $40 \mathrm{~mJ} / \mathrm{cm}^{2}$ |
| :--- | ---: | ---: | ---: |
| EL12AK | 2 GPM | 1 GPM | 0.5 GPM |
| EL411AK | 11 GPM | 6 GPM | 4 GPM |
| EL720AK | 15 GPM | 8 GPM | 6 GPM |
| EL1129AK | 22 GPM | 12 GPM | 9 GPM |
| EL1844AK | 44 GPM | 24 GPM | 18 GPM |
| EL3688AK | 88 GPM | 48 GPM | 36 GPM |


| Average UV Dosage ( $\mathrm{mJ} / \mathrm{cm}^{2}$ ) |  |
| :---: | :---: |
| For Inactivation (4 $\mathbf{l o g}$ ) of | Water Operating |
| Common Pathogens | Parameters |
| Cryptosporidium parvum oocysts <10 mJ/cm | Hardness: < $<7 \mathrm{GPG}$ |
| Cholera $6.5 \mathrm{~mJ} / \mathrm{cm}^{2}$ | Manganese: < 0.05 ppm |
| Salmonella (typhi) $8.2 \mathrm{~mJ} / \mathrm{cm}^{2}$ | Turbidity: <1NTU |
| Legionella pneumophila $9.4 \mathrm{~mJ} / \mathrm{cm}^{2}$ | Suspended Solids: 0.5 ppm |
| Shingella (dysenteriae) $4.2 \mathrm{~mJ} / \mathrm{cm}^{2}$ | Colour: None |
| Escherichia coli $5.6 \mathrm{~mJ} / \mathrm{cm}^{2}$ | Tannins: <0.1 ppm |

Salmonella entritidis $10 \mathrm{~mJ} / \mathrm{cm}^{2}$
Staphylococcus aureus $10.4 \mathrm{~mJ} / \mathrm{cm}^{2}$

## Water Operating Parameters

Hardness: < 7 GPG
Iron: < 0.3 ppm
Manganese: < 0.05 ppm
Turbidity: <1NTU
0.5 ppm

Tannins: <0.1 ppm

Waterite
Your Excellight ${ }^{\text {TM }}$ Dealer

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