Excelight

UV Disinfection by Waterite Technologies

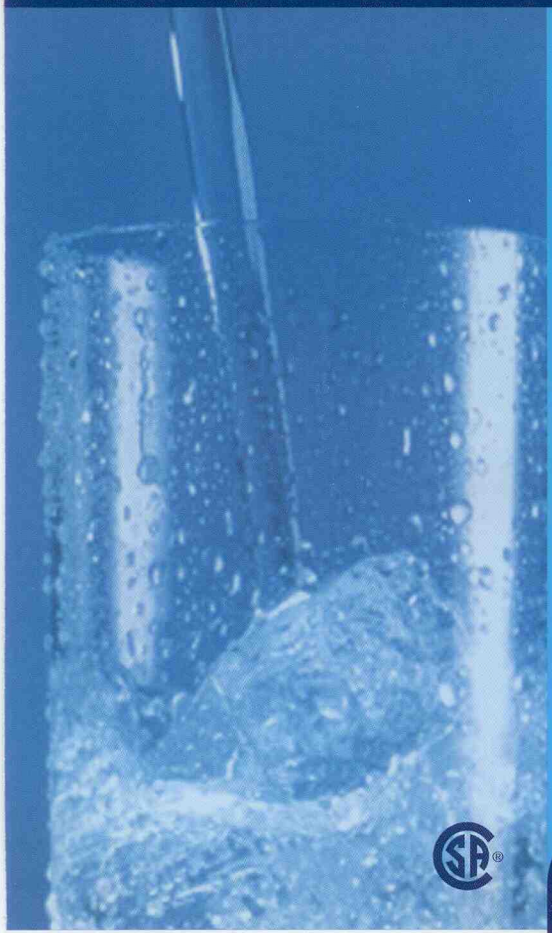
www.waterite.com

Ultraviolet Disinfection Systems

EL411AK (4-11 GPM)

EL720AK (7-20 GPM)

EL1129AK (11-29 GPM)



Waterite Technologies, Inc. introduces the Excelight™ 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 115V/60hz 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, turbidity 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.

WARNING

WHERE MICROBIOLOGICALLY ACTIVE WATER IS KNOWN TO EXIST IT IS HIGHLY RECOMMENDED THAT AT LEAST ONE ADDITIONAL DISINFECTION BARRIER SUCH AS CHLORINATION OR ABSOLUTE FILTRATION IS USED TO TREAT DRINKING WATER, IN ADDITION TO UV TREATMENT. CAREFULLY MAINTAIN ALL WATER TREATMENT EQUIPMENT AND HAVE DRINKING WATER TESTED REGULARLY.

Excelight

UV Disinfection by Waterite Technologies

www.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 mJ/cm² dose is considered suitable for reducing non-pathogenic nuisance organisms only, though many pathogens will be eliminated at this dosage.

A 30 mJ/cm² is the dosage typically produced by a system when designed using the 1966 US Department of Health Policy Statement.

A 40 mJ/cm² dosage is required by NSF/ANSI Standard 55.

Approximate Excelight™ dosages

Excelight™ Model	16 mJ/cm²	30 mJ/cm²	40 mJ/cm²
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 (mJ/cm²) For Inactivation (4 log) of Common Pathogens

Cryptosporidium parvum oocysts <10 mJ/cm²
Giardia Lamblia cysts <10 mJ/cm²
Cholera 6.5 mJ/cm²
Salmonella (typhi) 8.2 mJ/cm²
Legionella pneumophila 9.4 mJ/cm²
Shingella (dysenteriae) 4.2 mJ/cm²
Escherichia coli 5.6 mJ/cm²
Salmonella entritidis 10 mJ/cm²
Staphylococcus aureus 10.4 mJ/cm²

Water Operating Parameters

Hardness: < 7 GPG
Iron: < 0.3 ppm
Manganese: < 0.05 ppm
Turbidity: <1NTU
Suspended Solids: 0.5 ppm
Colour: None
Tannins: <0.1 ppm

Waterite

Waterite Technologies, Inc.
3–75 Meridian Drive, Winnipeg
Manitoba, Canada R2R 2V9
204.786.1604
204.783.1599 fax
waterite@waterite.com

MEMBER Water Quality ASSOCIATION

Your Excelight ™ Dealer