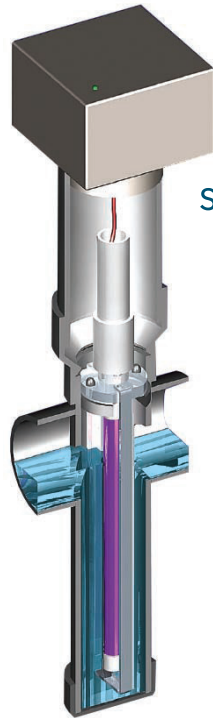
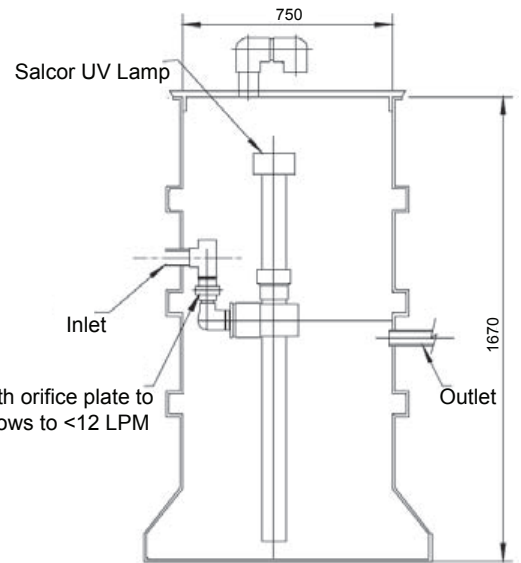




Salcor UV Disinfection Unit



Salcor 3G UV



UV Basin

Union with orifice plate to restrict flows to <12 LPM

Benefits

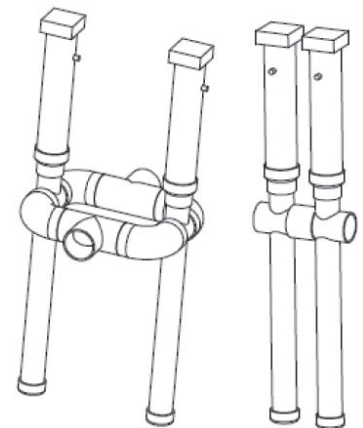
Easy Grommet Installation

No Floating

Features

Salcor 3G

Hydraulic flow per minute, max	12 or 24 L/m
UV lamp protected from scaling	Yes
Faecal Coliform effluent, max	200/100ml
Faecal Coliform effluent, min	Non-detect
BOD ₅ influent to UV, max @ 12 Lpm	30mg/L
TSS influent to UV, max @12 Lpm	30mg/L
BOD ₅ influent to UV, max @ 24 Lpm	10mg/L
TSS influent to UV, max @ 24 Lpm	10mg/L
Country of Origin	U.S.A.



Multiple Unit Configurations

The ultraviolet light source for disinfection is mounted in a sub-assembly which can be inserted or removed through the top of the riser pipe for periodic servicing. The light source is mounted in the center of an anodized aluminum frame which divides the disinfection chamber in half. The frame seals against the inner surface of the disinfection chamber to prevent flow bypass.

When fully inserted, the disinfection sub-assembly is properly located by two pins mounted near the top of the disinfection chamber. The disinfection subassembly causes the wastewater entering one side of the unit to flow vertically downward, make a 180 degree turn, and then flow vertically upward and out the other side of the unit. This well-defined flow path is designed to give the fluid proper exposure time and no short circuiting.

The ultraviolet light source is surrounded by a clear fused quartz tube to control the lamp surface temperature. A clear Teflon™ film covers the quartz tube to minimize surface fouling. This design feature incorporates the beneficial attributes of both quartz and Teflon™.

When the disinfection chamber is filled with water, the ultraviolet light source can operate continuously, whether or not water is flowing. Continuous operation with a lamp surface temperature range of between 40 and 50 degrees Celsius provides optimum ultraviolet light output and long lamp life.

The Salcor Model 3G unit may be installed in a pump tank, or it may be installed in the ground. In a direct ground installation, access to the unit should be through an irrigation or valve box so that the electrical subassembly junction box is shielded from direct sunlight.

Properly installed, the Model 3G unit is rated NEMA 6P, and is capable of operating during short term submergence. It passed a 30 day underwater test by Underwriters Laboratories.

The Salcor Model 3G unit is now both UL and cUL certified (US and Canada) under standard 979. As of 2014, the Salcor Model 3G unit is the only UV wastewater disinfection unit that is UL and cUL listed.

The electrical subassembly is mounted in a junction box located on top of the 100mm riser pipe. The box contains fuses, alarm circuitry, UV lamp ballast, power cable connections, voltage surge protection, and electronic noise filters.

The Salcor Model 3G alarm relay circuit triggers an external alarm to warn the user when the UV lamp is not operating properly.

Electronic components in the circuit sense changes in the UV lamp operation which correlate with the germicidal ultraviolet output. The normally energized relay has contacts that allow actuation of an external alarm indicating low UV output or a lamp outage.

The alarm relay circuit has been designed to be compatible with a wide variety of alarm systems used on upstream aerobic treatment plants. The relay contacts are rated for alarm power sources that operate at up to 250 Volts AC or DC, and up to 1 Amp.

When the UV lamp is producing ultraviolet germicidal light at a safe level, a green LED indicator light, located on the top of the electrical junction box, glows, which indicates proper UV lamp operation. The light stops glowing when the light output from the UV lamp falls below a safe level or is not operating.

The Salcor Model 3G UV Disinfection Unit and the UV lamp have a 2 year limited warranty.

