

Case Study – triogen® UV High End Private Swimming Pool in the UK



Application - Hotel Swimming Pool
Site - Langley Park, Windsor
Installation type - Full
Equipment - UV

Suez Purification and Disinfection Systems Ltd (PDS) worked with our UK business partner Aqua Platinum at the end of 2018 to upgrade the water filtration system at a private swimming pool to include a UV to the water treatment system.

Challenge

The high end client had identified that they needed to add an appropriate system to achieve better water quality. The consultant Aqua Platinum had specified that triogen® UV was the best solution for this client. SUEZ triogen had to work with Aqua Platinum in order to convince the customer of the benefits of using triogen® UV for secondary disinfection instead of cheaper alternatives.

Site

The hotel has 1 indoor lap pool (60m³/hr), 3 indoor vitality pools (28m³/hr each) and 1 outdoor lap pool (68m³/hr). General usage is 80-100 people per day. Aqua Platinum & Suez PDS designed and installed triogen® medium pressure UVCF 105 unit, UVCF 70 unit, 2no UVCF 40 units and a UVASPA 50.

Features of Equipment

- Minimal plantroom space required
- Low capital cost and installation cost
- Simple to install and operate

Operational Improvements

- Reduced backwashing
- Reduced chemical consumption
- Safer pool water
- Treatment of chlorine resistant micro organisms (crypto, giardia and legionella)
- Reduced skin, eye irritation and respiratory irritation to bathers
- Improved water clarity
- Savings in water and chemical consumption

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Solution

triogen® UVCF & SPA was chosen due to the brand and reputation in the market. The trust that the equipment offered was properly sized for treatment and efficient destruction of chlorine resistant bacteria including unwanted chloramines with no risk of the accumulation of undesirable by-products. The equipment will give long life and reliable operation.



Outcome

The outcome was the successful sale and installation of the triogen® UV system. Due to this there will be significant visual improvement in the water clarity. The bather experience will also improved with safer water and no irritation from the undesirable by-products that are found in traditional chemically only treated pools. The project was delivered on time and in budget and is now in operation as expected.

Equipment

The triogen® UVCF complete with:

- Chloramine destruction reducing “red eye” and irritation of skin and respiratory system.
- Significant improvement in water clarity and air quality.
- Advanced lamp efficiency and automatic low power setting.
- 316L stainless steel electro-polished.
- Automatic “Smartdrive” wiper system and UV monitor.
- Quick release powerhead for easy lamp replacement.
- Wall mounted touchscreen microprocessor control panel.
- Data logging, BMS, Ethernet and Modbus communication ready.
- CE marked, UL listed.
- Manufactured to ISO 9001 : 2015.
- In line Strainer

