

Professional water systems maintenance and installation

Competitive, world class water products

Service for most water treatment brands

Based in East Tamaki, Auckland, Wavelength provides professional design, installation, maintenance and breakdown services for water treatment equipment in both the municipal swimming pool and industrial water treatment sectors. Our goal is to be the first point of call for our customers with a range of skills in-house and through specialised subcontractors by offering outstanding service, flexibility and value.

With experience across the range of treatment equipment in use in New Zealand Wavelength are able to supply, install and service most brands of filtration equipment, dosing pumps, UV, ozone and chlorination systems, heat pumps, heat exchangers, reverse osmosis, deionising and softening equipment. We are able to install and repair most types of plant piping including schedule PVC, ABS, PE, and PP with certified fusion welders in house.

Wavelength are the NZ distributor for Hanovia UV systems (UK) and also distribute Fiberpool filtration equipment (Spain). We have access to the product ranges of most NZ and many overseas treatment equipment manufacturers and carry out installation and maintenance work for municipal pools and swim schools across the North Island and for many companies whose products are household names.

Wavelength have a great deal of industry knowledge in-house having completed water projects in food and beverage manufacture and processing, electronics, pharmaceutical and household products manufacture and swimming pool plant rooms. We work in potable, process and wastewater treatment applications with end users, contractors and major water treatment equipment vendors.

Projects

Typical projects include pure water treatment systems providing RO quality water for industry and medical facilities, water and wastewater treatment systems for industry, swimming pool water treatment equipment (UV, filtration, chemical dosing). We also do high quality piping installations for water and gases like CO₂, air and nitrogen with staff qualified to install PVC, ABS, PP, PE and PVDF.

Service and maintenance

We carry out routine and breakdown maintenance for our clients assisting them to minimise plant downtime and maximise plant utilisation. Clients include council swimming pools and drinking water treatment plants, food, beverage and ingredients manufacturers and a wide range of industrial manufacturing companies. Service schedules can range from monthly visits to annual service of specific items like UV and filtration systems.



UV systems

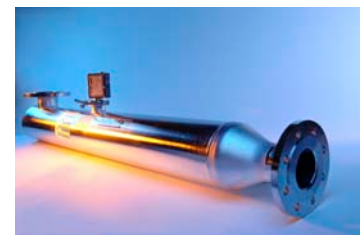
Wavelength are the exclusive NZ distributor for world renowned UV system manufacturer Hanovia Limited and provide parts and service for these units which are installed across the country. The Hanovia Photon and AF3 series systems disinfect industrial process water, sugar, wastewater and potable water with New Zealand installations over 20 years old still in successful use.

Photon systems use medium pressure lamps which are compact and usually only require a single lamp per system to treat high water volumes. Most units are supplied with automatic quartz sleeve wiping systems which means that regular disassembly for cleaning is a thing of the past. An annual wiper system service and lamp change is the usual service input for these systems. The single lamp design means that system installation and maintenance costs are relatively low.

The smaller AF3 series use amalgam lamps again one per system and these are designed for smaller industrial applications like pharmaceutical and food and beverage manufacture at lower flows than would require a medium pressure lamp with flow capabilities ranging from 1 to 100m³/hr.

Chloramine destruction

The other major application of UV systems in New Zealand is the widespread use of Hanovia UV systems to destroy chloramines in indoor public pools. Chloramines form when chlorine contacts urine in the pool water and they are responsible for most of the “chlorine” smell and irritation associated with indoor pools. Use of medium pressure UV destroys these compounds making the pool environment pleasanter and safer and in most busy pools the installation of UV in the recirculating water flow reduces pool operating costs.

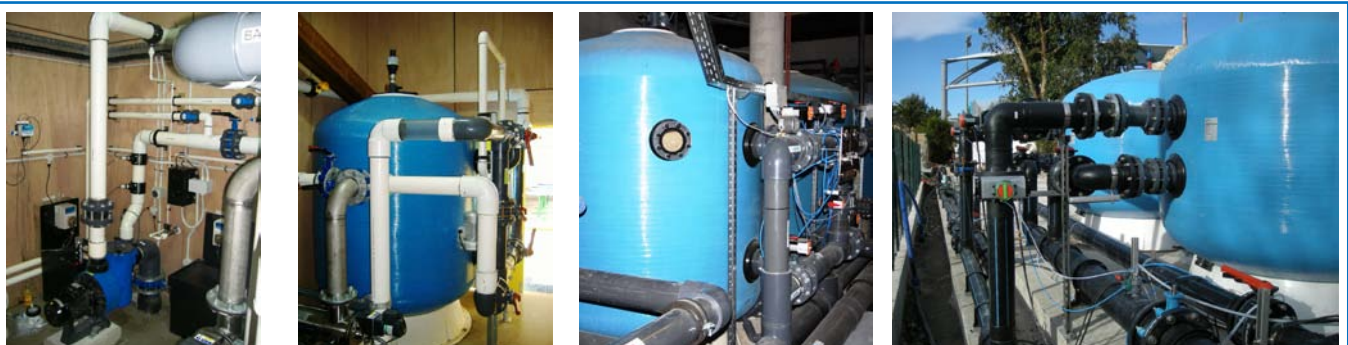


Hanovia UV systems are used across NZ to treat water, waste and public swimming pools

Fiberpool products



Fiberpool (Spain) are the manufacturer of a wide range of commercial pool and industrial water filtration products which are distributed by Wavelength. The original large pool filter range has been greatly expanded and now these products are used in irrigation, aquaculture, hydroponics and many other industrial water treatment applications operating at up to 6 bar pressure. The filters can be customised with access manways, sight glasses and complete valve harnesses and they can be manufactured for horizontal or vertical operation. The filters are widely used in NZ swimming pools and are increasingly being successfully installed in other industrial applications by Wavelength. Fiberpool also manufacture competitive pool pumping equipment and related products.



Fiberpool filtration and pumping products are widely used in industrial filtration, irrigation and swimming pool applications