

UV LED WATER PURIFICATION



**AEGINA IS THE WORLD'S ONLY CLASS A
WATER PURIFIER USING EARTH FRIENDLY
ULTRAVIOLET TECHNOLOGY**

**YOUR INSTANT SUSTAINABLE SOURCE
OF PURE DRINKING WATER THAT
DOESN'T COST THE EARTH**



Making Life Better

Pure water that doesn't cost the Earth!

Aegina uses the latest sophisticated UV LED technology, evolved from over 30 years' experience of providing LED solutions to some of the world most technically demanding customers.

Aegina has been independently tested to NSF 55 standard Class A, our small robust unit can purify any stored water, or water from unknown sources that may contain viruses for example, Giardia and Cryptosporidium.

Aegina delivers the purest water to NSF 55 Class A standard. Germs, bugs and pathogens are eliminated by the Ultraviolet LED technology in our systems.

Aegina is 100% safe. Carefully considered design features mean that the UV LED light will switch off if there is any alteration or damage to the system.

The most energy efficient yet powerful UV LED water purification unit on the market. Suitable for many applications like Boats, Motorhomes, Off Grid, Offices and many more domestic and commercial.

A sophisticated design that lets you know should parts need to be replaced, continually monitoring the performance to give you a lifetime of safe reliable service.

More than 90% of our product and 100% of the packaging is recyclable. We make every effort to be environmentally friendly by choosing materials that can be recycled or reused without compromise to committing to the highest standards.



Features & Benefits

Features

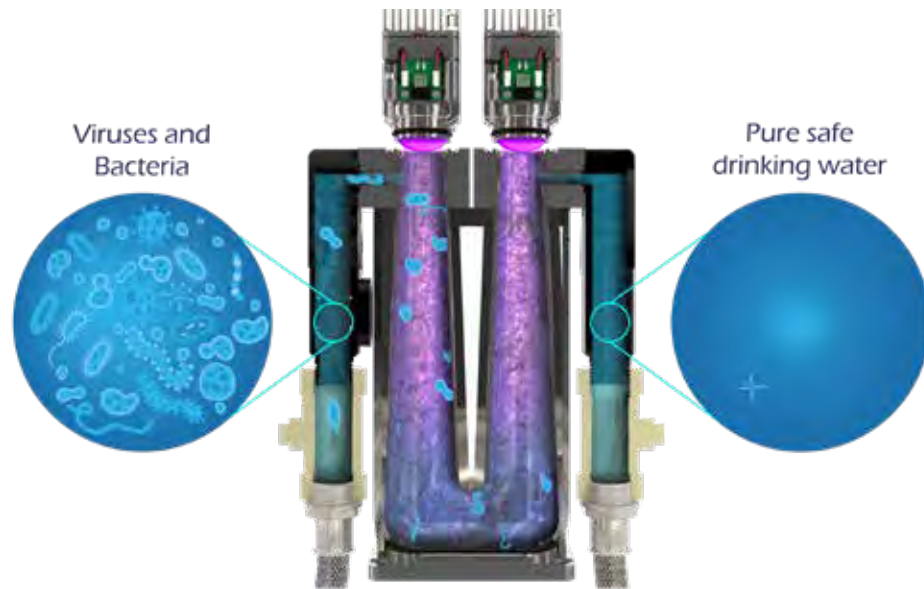
- Pure Safe Water**
Powerful UVC LED technology eliminates 99.99% of viruses and bacteria.
- Superior Quality**
Aegina has been designed, developed and manufactured to the highest standards in the UK.
- Intelligent**
Optimises UVC LED power, is instant, safe and consistently monitors performance.
- Energy Efficient**
Aegina has low energy consumption compared to other technologies.
- 24 Month Warranty**
All our machines are covered by an automatic 24 month warranty from the date of purchase.

Benefits

- Keeps your water safe from harmful bacteria and viruses that may live and multiply in your water source.
- Simple installation, no special tools or knowledge required.
- Low energy device can be powered by battery, wind, solar or mains supply.
- Easily maintainable when required throughout its life.
- Earth Kind helping free the Earth from its reliance on plastic bottles. Our products are manufactured from materials that are recyclable.



How does Aegina work?



Pure water with Ultraviolet LED

Aegina uses the latest intelligent Ultraviolet LED technology to produce pure, clean drinking water that is to NSF 55 Class A Standards.

The UV LED light is directed at the flow of water in our system, it uses a specific wavelength of light which changes the structure of the viruses and bacteria. The UV LED light affects the wall of the pathogen's cells causing irreversible damage to the DNA and RNA. The cells cannot recover or reproduce and so are denatured or rendered ineffective. This is known as thymine dimerization.

UV Technology has been around for some time as a water disinfection process and is one of the fastest growing water treatment methods. However older treatment methods of producing the UV light with mercury lamps is expensive and bad for the environment.



Zero is our Hero



**“It’s only one bottle”
said 8 billion people.**

In 2019, the UK consumed a staggering 2.8 billion bottles of water.

Approximately, 1 billion 2L litre size bottles go to landfill every year in just the UK alone, which is enough to cover 187 football pitches.

A recent Radio 4 broadcast highlighted that there is 1.6 million square kilometres of plastic waste in the world, that is enough to cover 2/3 of the Mediterranean Sea.

Aegina can give you the pure drinking water with zero plastic waste.



Making Life Better

ONE SOLUTION FITS ALL



How Aegina compares to other water purification systems

Description	Aegina	Other UVC LED Brands	Carbon Filters
Class A NSF/ANSI 55 Approved	✓	✗	✗
Class B NSF/ANSI 55 Approved	✓	✓	✗
Maintainable	✓	✗	✗
Simple to install, no special skills required	✓	✓	✓
Lifetime of service	✓	✗	✗
Class A purified water guaranteed	✓	✗	✗
Built in fail-safe features to protect user from UVC exposure	✓	✗	✗
24 month warranty	✓	✗	✗
Robust UVC LED with life expectancy of bulbs 4+ years based on average use	✓	✗	✗
Available in a variety of different flow rates	✓	✗	✗
Environmentally sealed against the most challenging elements - eg salt corrosion	✓	✗	✗
Intelligent - Communicates to other devices	✓	✗	✗
Low power consumption	✓	✓	✓
Can run on a battery, solar & easily switches between	✓	✓	✗

Contactless water cooler

A water cooler is fast becoming a staple piece of equipment in a workplace, communal waiting space or gym, and whilst we want to promote healthy living you also need to consider providing a safe sustainable source of water.

Aegina uses the latest intelligent Ultraviolet LED technology to produce 99.99% pure, clean drinking water that is to NSF 55 Class A Standard, eliminating germs, viruses and pathogens. Aegina's small mobile units with varying outputs per minute are suitable for many applications and we can even integrate them into water coolers as well as mains tap outlet - at point of use. This simply eliminates the need for bottled water reducing plastic waste and carbon footprint.

It is commonly known that water coolers can breed harmful bacteria and germs. Even if regularly cleaned germs in the water cooler can run rampant, particularly in the dispensing spout. Even the positioning of the water cooler and bottles needs to be considered so out of direct sunlight as even after only a short amount of time it will become tinged with green, and algae can start to form. Also, the air that gets sucked back up into the bottle after drawing water can also contain contaminants which then sit in the bottle until dispensed.



NSF/ANSI 55: Ultraviolet Microbiological Water Treatment Systems



NSF helps manufacturers of point-of-use (POU) / point-of-entry (POE) ultraviolet systems to certify claims that their products disinfect contaminated water. There are two optional classifications when it comes to certification.

NSF/ANSI 55:

Class A Systems

(40 mJ/cm²) are designed to disinfect and/or remove micro-organisms, including bacteria and viruses, from contaminated water to a safe level. Class A systems may claim to disinfect water that may be contaminated with pathogenic bacteria, viruses, Cryptosporidium or Giardia.

Class B Systems

(16 mJ/cm²) are designed for supplemental bactericidal treatment of public or other drinking water that has been deemed acceptable by a local health agency. Class B systems may claim to reduce normally occurring nuisance micro-organisms. The scope of this standard also includes material safety and structural integrity testing.

Aegina gives you Class A specification:



99.99% Clean and safe drinking water



Eco friendly, reduce plastic waste



Instant on/off, low power



Modular, intelligent



Low maintenance, cost effective

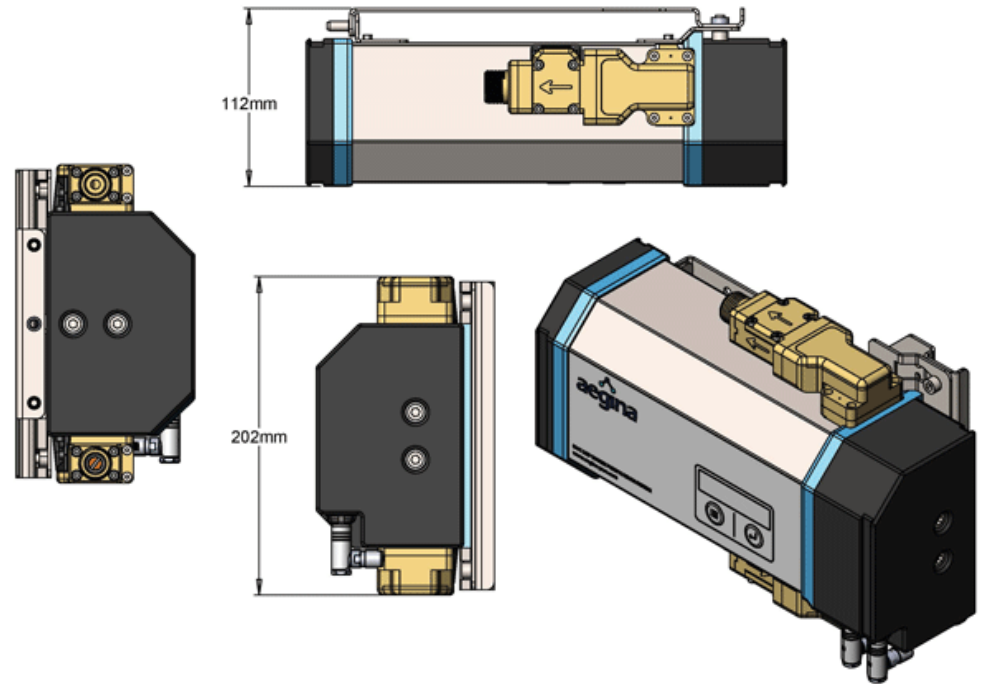


No taste altering chemicals, no odour

Technical Specification

Litres per min	Unit size	Watts	12 Volts	24 Volts	240 Volts
3	304mm x 202mm x 112mm	39w	3.5A	1.8A	0.17A
6	304mm x 202mm x 167mm	72w	6.6A	3.3A	0.3A
12	304mm x 202mm x TBAm	144w	13.2A	6.6A	0.6A

Product Diagram - Aegina 3L/Min





**It's not bottled ...
It's better!**



PRP Optoelectronics Ltd
Home of Aegina, Units 2 and 4 Western Gate,
Hillmead Enterprise Park, Langley Road,
Swindon, Wilts SN5 5WN

Email: contact@aegina-pure.com
Telephone: +44 (0)1793 881497 www.aegina-pure.com



Make every drop count