

# Klaran UVC LED

## Water Treatment Technology

### What is it?

Point-of-dispense, UVC disinfection for POU Water Cooler systems.

### Why add Klaran?

#### Added Protection Where it Matters Most

Klaran UVC LED provides an additional layer of protection by disinfecting potable water at the final point of dispense, helping safeguard end users from bacteria that may be present within downstream plumbing or dispensers.

#### Optimised UVC Germicidal Wavelength

Operates at  $\approx 265$  nm, the most effective germicidal UVC band for microorganism inactivation.

#### Proven Disinfection Performance

Proven reduction of key waterborne bacteria including 99.9% reduction of *Pseudomonas aeruginosa* and 99.9% reduction of *E. coli*.

### What are the benefits?

#### Cost Effective

High-quality disinfection, delivered at a fraction of a penny per litre, unlike other technologies which can be up to 10 $\times$  more expensive per litre.

#### No Maintenance

Once installed, the Klaran device requires no additional maintenance, unlike conventional UV bulb systems with up to 10x higher lifetime cost of ownership.

#### Environmentally Friendly

Only activates during dispense meaning no stand-by energy consumption. No ongoing maintenance also means that Klaran installations help reduce the number of vans on the road.

#### No Harmful Substances

Klaran UVC devices use LED's instead of traditional mercury lamps. Not only is mercury a recognised harmful substance, it is also requires you to adhere to a specialised and regulated disposable process. LED's last longer, are more consistent, and safer for you and your customer.

### Where can I use it?

The Klaran UVC LED upgrade can be installed on any floor standing, direct chill POU water cooler.



### How it works?

#### On-Demand & Automatic

The Klaran UVC LEDs activate only when water flows. This means no standby energy use and no user action required.



#### Un-treated Water Enters the device

As water flows through your machine, it enters the Klaran device at one end.



#### Water is treated using UVC light

Here, the water is treated by UVC light as it passes through the device, before exiting the out of the end.



#### Treated water is then dispensed

The Klaran device is fitted as close to the machines outlet (dispensing nozzle) as possible, to ensure the treated water goes straight into the users cup.

