

DaRo UV Systems

The 3 Series ECO UV system

DaRo UV systems are specialists in ultraviolet disinfection and have been manufacturing systems in the UK for over 25 years. Our products are market leaders and approved by health specialists for domestic use. All of our systems are WRAS (Water regulation advisory service) approved.

Our unrivalled design and manufacturing capability allows us to provide a comprehensive standard range of UV products. It also gives us the flexibility to build bespoke UV equipment to our customer's precise requirements. With water disinfection systems ranging from small OEM units through to large industrial systems, our in house manufacturing enables customised solutions to be offered and backed by our design expertise.

The 3 Series ECO UV system is designed specifically with the environment in mind.

Longevity: The 3 series ECO system is designed primarily for longevity. The system is manufactured to be very robust as it is manufactured from stainless steel throughout. This should last upwards of 20 years with only minor components possibly having to be replaced. Even when the system has come to the end of its useful life, all components can be easily recycled. This gives the DaRo UV systems 3 series ECO a very low overall carbon footprint.

5 year warranty: We believe that no other manufacturer confidently backs their UV Systems with such a pioneering manufacturer's warranty. With impressive build quality and assured design you can be guaranteed complete piece-of-mind**

UK manufactured: The DaRo UV systems 3 series ECO is manufactured throughout at a single facility in the UK, unlike many other systems that are shipped in from the Far East, thus lowering the carbon footprint for the 3 series ECO system even further.

Low running cost: As well as the low carbon footprint of the system itself, the 3 Series ECO is also designed to be very energy efficient. Typically the system will only cost around 14p per day to run*. We would consider this a very small amount to ensure your drinking water, and in turn, you are healthy.

The low running cost, low cost of spares and consumables along with the very small carbon footprint, all in all makes the DaRo UV Systems 3 series ECO system a very robust, economical and environmentally friendly system.

*based on a 30w system working on a tariff rate of £0.15/Kwh.

**Please contact us for full warranty terms and conditions



How does ultraviolet disinfection work?

The disinfection unit comprises an enclosed chamber with an inner sleeve of high purity quartz, which contains a germicidal (short wave ultraviolet) lamp. Water passes through the chamber and is subjected to the UV light, which shines through the quartz sleeve. Short wave ultraviolet destroys the genetic structure of the microorganisms; therefore bacteria or viruses in the water exposed to the UV light will be destroyed. Ultraviolet light is one of the safest ways to disinfect water since it does not use chemicals and therefore cannot be overdosed, it also does not alter taste.

DaRo
UV SYSTEMS LTD

The specialists in ultra violet light

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The 3 Series ECO UV system



Choosing your system

The following table gives performance details on the domestic range. To choose the correct unit simply match the application against the unit required. If in doubt, please contact your local stockist or our head office

	ECO 1	ECO 2	ECO 3	ECO 5
Chamber construction	316L stainless steel			
Control panel construction	304 stainless steel			
Typical application (approx.)	Up to 2 taps (small dwelling)	Whole house (family home)	Multiple user (guest house)	Multiple user (Hotel)
Domestic Flow rate	8 litres per minute	19 litres per minute	36 litres per minute	51 litres per minute
Pressure ratings	10 bar working pressure			
Lamp life	8760 hours (1 years continuous use)			
UV lamp	GER15	GER30	GER55	GER55
Connections	¾ inch BSP male thread			1 inch BSP male thread
Dimensions	See general arrangement drawing for details			
Power consumption	18 Watts	33 Watts	40 Watts	40 Watts
Power supply	240v 50Hz single phase			

* Flow based on 98% UV transmission per 1cm at end of lamp life giving a UV dose of 40mJ/cm²
For more detailed specifications, please consult the ECO Series technical data sheet

Filtration

It is important that sediment in the water does not obstruct the UV light. We strongly advise that a 5- micron sediment pre filter is fitted before the chamber to remove contamination. DaRo UV systems have an extensive range of compatible filter units in stock to match the UV chambers capacity. We will be pleased to advise when choosing a unit and propose corrective measures for other water problems

Larger units

DaRo UV Systems can offer a range of larger standard units. Our expertise in design and manufacture enables us to tailor systems to specific site situations. The systems that we

have manufactured are in regular use in a wide range of applications, from vending machines to municipal drinking water treatment.

Standard features

- 5 year warranty**
- UK manufactured
- Low carbon footprint
- Robust design
- Low running cost
- Long life / High Reliability UV Lamp
- Maximum 10 bar working Pressure
- Simple to Install and Service
- Electropolished Chamber
- Commonplace UV Lamps

