Daro
UV SYSTEMS

Datasheet
ECO Series
Domestic

Description

WRAS-approved UV water disinfection system, for the disinfection of clean water to meet relevant water standards.

Main Applications

- Private drinking water supplies
- Process water
- Water cooling supplies
- Legionella growth in warm water supplies
- Rainwater harvesting and recycling

Temperatures

- Standard water temperature 5-23°C
- Temperature range 0-60°C

Standards

- Water regulatory advisory service (WRAS) approved (1407340)
- Kiwa Regulation 4 KUKREG4 (2410725)

Technical Description

- Single-centred low-pressure lamp UV System
- UV lamp and quartz sleeve removable from either end of chamber

Flow Rates (m³/hr)

	ECO 0.8	ECO 1	ECO 2	ECO 3
30 mJ/cm^2@ 98% UVT	0.34	0.65	1.65	2.8
40 mJ/cm^2@ 98% UVT	0.26	0.5	1.25	2.1
30 mJ/cm^2@ 95% UVT	0.32	0.62	1.6	2.7
40 mJ/cm^2@ 95% UVT	0.25	0.48	1.2	2.05

All flows are calculated at end of lamp life time
Please contact us for further information regarding flow rates

Technical Datasheet

	ECO 0.8	ECO 1	ECO 2	ECO 3
Certification - WRAS approved (1407340)	✔	✔	✔	✔
UV Reaction Chamber				
Material - 304 stainless steel	✔	✔	✔	✔
Internal/ external finish - cleaned and polished	✔	✔	✔	✔
Lamp access - double ended	✔	✔	✔	✔
Quartz sleeve type - high purity silica quartz	✔	✔	✔	✔
Mounting - integral fixing bracket	✔	✔	✔	✔
Connection size - inches	10mm	0.75	0.75	0.75
Dimensions	Please refer to general arrangement drawings			
Reactor volume approx - litres	0.73	1.6	3.5	3.5
Total weight (dry) - kilograms	0.86	1.9	3.1	3.1
Operating pressure (max) - bar	8	8	8	8
Protection class (IP)	3X	3X	3X	3X
Installation - horizontal/vertical	✔	✔	✔	✔
Features - lamp on indicator	✔	✔	✔	✔
Connection Type	John Guest speedfit	Male BSP thread	Male BSP thread	Male BSP thread
UV Lamp				
Type	GER8	GER15	GER30	GER55
Lamp design - double ended bi pin	✔	✔	✔	✔
Lamp power - watts	8	15	30	55
UVC output @ 254nm - watts	2.4	4.9	12	17.5
Quantity	1	1	1	1
Lamp life - hours	8760	8760	8760	8760
Control Panel				
Material - Acrylonitrile Butadiene Styrene (ABS) plastic	✔	✔	✔	✔
Dimensions (W x H x L) - millimetres	125x95x35	125x95x35	125x95x35	125x95x35
Weight - kilograms	0.25	0.25	0.25	0.25
Mains Power - VAC/PH/Hz	220-240 / 1 / 50-60	220-240 / 1 / 50-60	220-240 / 1 / 50-60	220-240 / 1 / 50-60
Power Consumption - watts	14	16.5	30	38.5
Protection - 3A mains fuse	✔	✔	✔	✔
Protection class	IP54	IP54	IP54	IP54
Lamp power supply - electronic ballast	✔	✔	✔	✔