

Description

UV water disinfection system. For the disinfection of clean water to meet relevant water standards.
Systems are PLC based with multifunction text display controller systems.

Technical Description

Concentrically arranged low-pressure lamp UV System.
Removable endplate design for ease of maintenance.

Main Applications

- Medium to large scale drinking water supplies
- Process water
- Water cooling supplies
- Medium to large scale industrial systems
- Water displays and features

Standards

Water regulatory advisory service (WRAS) approved (1706329).

Temperatures

- Recommended water temperature: 5-45°C
- Possible temperature range: 0-60°C
- Maximum WRAS approved temperature: 23°C

Flow Rates (m³/hr)

UV Dose	AS1-215	AS1-315	AS2-215	AS2-315	AS4-215	AS4-315
30mJ/cm ²	33	43	54	75	109	168
40mJ/cm ²	21	28	35	47	80	120

Flows based on a UV transmission level of 98%.
All flows are calculated at end of lamp life time.

Please contact us for further information regarding flow rates.

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Data sheets are subject to change without prior notice.
Systems designed and manufactured by Daro UV in the UK, other requirements considered.
Daro UV is a company registered in England & Wales. Registration Number: 06070435.



Model	AS1-215	AS1-315	AS2-215	AS2-315	AS4-215	AS4-315
Certification - WRAS approved	✓	✓	✓	✓	✓	✓
UV chamber						
Material construction - 316 stainless steel	✓	✓	✓	✓	✓	✓
Internal/external finish - cleaned/polished	✓	✓	✓	✓	✓	✓
Lamp access - single ended	✓	✓	✓	✓	✓	✓
Quartz sleeve type - high purity silica quartz	✓	✓	✓	✓	✓	✓
Mounting - integral fixing bracket	✓	✓	✓	✓	✓	✓
Connection size - DN80 PN16	✓	✓	✓	✓	✓	✓
Connection type - flanged	✓	✓	✓	✓	✓	✓
Dimensions - refer to general arrangement drawing						
Volume approx - litres	34	72	34	72	34	72
Total weight (dry) approx	18	22	18	22	18	22
Operating pressure (max) - 10 bar	✓	✓	✓	✓	✓	✓
Protection class (IP) - 56	✓	✓	✓	✓	✓	✓
Installation - horizontal/vertical	✓	✓	✓	✓	✓	✓
UV lamp						
Type - GERAMA150	✓	✓	✓	✓	✓	✓
Lamp design - Single ended 4 pin low pressure amalgam	✓	✓	✓	✓	✓	✓
Lamp power - 135 watts	✓	✓	✓	✓	✓	✓
UVc output @ 254nm - 43 watts	✓	✓	✓	✓	✓	✓
Quantity	1	1	2	2	4	4
Lamp life - 12,000 hours	✓	✓	✓	✓	✓	✓
Control panel						
Material - powder coated mild steel	✓	✓	✓	✓	✓	✓
Dimensions (WxHxL) - millimetres	500x400x150	500x400x150	500x400x150	500x400x150	600x400x150	600x400x150
Weight approx - kilograms	15	15	15	15	22	22
Mains power - 220-240/1/50-60 (VAC/PH/Hz)	✓	✓	✓	✓	✓	✓
Power consumption - watts	200	200	350	350	700	700
Protection - 6A MCB Type C input breaker	✓	✓	✓	✓	✓	✓
Protection class (IP) - 54	✓	✓	✓	✓	✓	✓
Mains connection - DIN terminal	✓	✓	✓	✓	✓	✓
Lamp power supply - electronic ballast	✓	✓	✓	✓	✓	✓
Control type - programmable logic controller	✓	✓	✓	✓	✓	✓
Interface - text button display	✓	✓	✓	✓	✓	✓
Communication - Modbus TCP/IP, PROFINET, SIMATIC S7	✓	✓	✓	✓	✓	✓
Options						
UV intensity monitoring	System healthy	GSM text message system	LAN connection			
Remote start/stop	Stop flow fault condition	Duty/standby system control	Inlet/outlet configuration or size			
Chamber over temp dump	Remote UV level	Remote screen	Bespoke branded interface			

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