

Datasheet AL Series

Description

WRAS-approved UV water disinfection system. For the disinfection of clean water to meet relevant water standards. Systems are programmable logic controller (PLC) based with multifunction text display controller systems.

Main Applications

- Medium to large scale drinking water supplies
- Process water
- Water cooling supplies
- Medium to large-scale industrial systems
- Water recycling

Temperatures

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

Standards

Water regulatory advisory service (WRAS) approved (2304333)

Technical Description

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

Flow Rates (m³/hr)

	AL1M	AL2M	AL4M
30 mJ/cm ² @ 98% UVT	78	130	260
40 mJ/cm ² @ 98% UVT	51	93	195
30 mJ/cm ² @ 95% UVT	60	90	231
40 mJ/cm ² @ 95% UVT	32	59	160

All flows are calculated at end of lamp life time

Please contact us for further information regarding flow rates



Technical Datasheet

Model	AL1M	AL2M	AL4M
Certification: WRAS-approved	✓	✓	✓
UV Reactor Chamber			
Material construction - 316 stainless steel	✓	✓	✓
Internal/external finish - cleaned/ polished	✓	✓	✓
Lamp access - single ended	✓	✓	✓
Thermal drain	✓	✓	✓
UV Intensity Monitor	✓	✓	✓
Quartz sleeve type - high purity silica quartz	✓	✓	✓
Connection size - DN100 PN16	✓	✓	✓
Connection type - flanged	✓	✓	✓
Dimensions	Refer to general arrangement drawing		
Volume approx - litres	60	60	60
Total weight (dry) approx - kilograms	32	32	32
Operating pressure (max) - 16 bar	✓	✓	✓
Protection class - IP56	✓	✓	✓
Installation - horizontal/vertical	✓	✓	✓
UV Lamp			
Type - GERAMA300	✓	✓	✓
Lamp design - Single ended 4 pin low pressure amalgam	✓	✓	✓
Lamp power - 325 watts	✓	✓	✓
UVc output @ 254nm - 116 watts	✓	✓	✓
Quantity	1	2	4
Lamp life - 12,000 hours	✓	✓	✓
Control Panel			
Material - powder coated mild steel	✓	✓	✓
Dimensions (W x H x L) - millimetres	500 X 400 X 200	500 X 400 X 200	600 X 400 X 200
Weight approx - kilograms	15	18	22
Mains power - 220-240 / 1 / 50-60 (VAC / PH / Hz)	✓	✓	✓
Power consumption - watts	350	650	1300
Protection - Type C MBC	✓	✓	✓
Protection class - IP54	✓	✓	✓
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			
Remote start/stop	System healthy	GSM text message system	LAN connection
Bespoke branded interface	Stop flow fault condition	Remote screen	Inlet/outlet configuration or size
	Remote UV level		