

General Information

SAPHIR Series

Description

UV water disinfection system. For the disinfection of clean water to meet relevant drinking water standards

Technical description

- Single centred low-pressure UV System
- Single ended UV lamp and quartz sleeve

Main applications

- Private drinking water supplies
- Process water
- Water cooling supplies
- Legionella growth in warm water supplies

Standards

Water regulatory advisory service (WRAS) approved (1612300)

Temperatures

- Recommended water temperature: 5-35°C
- Possible temperature range: 0-60°C
- Maximum WRAS approved temperature: 23°C

Flow rates (LPM)

System	SAPHIR 1 (+)	SAPHIR 2 (+)	SAPHIR 3 (+)	SAPHIR 4 (+)	SAPHIR 7 (+)	SAPHIR 10 (+)
UV Dose						
30mJ/cm ²	17.5	30	53.5	61	118.5	160
40mJ/cm ²	13	22.5	40	46.7	59.2	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

Technical Data sheet

SAPHIR Series

Model	SAPHIR1 (+)	SAPHIR2 (+)	SAPHIR3 (+)	SAPHIR4 (+)	SAPHIR7 (+)	SAPHIR10 (+)
Certification	WRAS Approved					

UV Chamber				
Material construction	316 stainless steel			
Internal/External finish	Pickled and passivated/Electropolished			
Lamp access	Single ended			
Quartz sleeve type	High purity silica quartz			
Mounting	Integral fixing bracket			
Connection size	0.75"		1"	1.5"
Connection type	Male BSP Thread			
Dimensions	Please refer to general arrangement drawing			
Volume (litres) Approx.	1.9	2.7	5	8.5
Total weight (dry)	1.5	2	3.5	5.75
Operating pressure (Bar) Max.	10			
Protection class (IP)	56			
Installation	Horizontal/Vertical			
Features	Lamp on indicator (Lamp fail indicator, Lamp status indicator & Volt Free Contacts + System)			

UV lamp					
Type	GER15SE	GER25SE	GER25XOSE	GER36SE	GER36XOSE
Lamp design	Single ended 4 pin				
Lamp power (W)	15	25	45	40	75
UVc output @ 254nm (W)	4	7.5	13	15	25
quantity	1				
lamp life (H)	8760				

Control Panel					
Material	Ali extrusion	Mild steel			
Dimensions (mm) W x H x L	70 x 80 x 245	190 x 260 x 62			
Finish	Black	White (Powder coated)			
Weight (kg)	1	2.5			
Mains power (V/Ph/Hz)	220-240/1/50-60				
Power consumption (W)	16.5	30	38.5	42	68
Protection	3A mains fuse				
Protection class (IP)	56				
Mains connection	UK mains plug				
Lamp power supply	Electronic ballast				
Control type	N/A				
Interface	N/A (Push button + system)				
Communication	LED display, Volt Free Contacts				

Options (only available with + Systems)
➤ UV Intensity monitoring ➤ Chamber Over Temp Dump ➤ Stop Flow Fault Condition ➤ GSM text message System ➤ Inlet/Outlet configuration or size