

# Datasheet

## 4, 5 & 6 Series

### Commercial & Industrial

## 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 and electronic lamp drivers.

## Main Applications

- Private drinking water supplies
- Process water
- Water cooling supplies
- Small to medium scale industrial systems (4 Series)
- Medium to large-scale industrial systems (5 & 6 Series)
- Water recycling

## Temperatures

- Recommended water temperature 5-35°C
- Possible temperature range 0-60°C

## Standards

- Water regulatory advisory service (WRAS) approved (240104704)

## Technical Description

- Single-centred low-pressure lamp UV System (4 Series)
- Concentrically arranged low-pressure lamp UV System (5 & 6 Series)
- UV lamp(s) and quartz sleeve removable from either end of chamber



## Flow Rates (m<sup>3</sup>/hr)

	4 SERIES	5 SERIES		6 SERIES
	SS136SE4XO	SS236SE5XO	SS336SE5XO	SS436SE6XO
30 mJ/cm <sup>2</sup> @ 98% UVT	8.4	20.5	27.5	40
40 mJ/cm <sup>2</sup> @ 98% UVT	6.4	13.5	21.5	30
30 mJ/cm <sup>2</sup> @ 95% UVT	7.7	18	25.5	37
40 mJ/cm <sup>2</sup> @ 95% UVT	5.5	11.5	19	27.5

All flows are calculated at end of lamp life time

Please contact us for further information regarding flow rates



# Technical Datasheet

## 4 Series

## SS136SE4XO

Certification - WRAS approved (240104704)	✓
<b>UV Reaction Chamber</b>	
Material construction - 316L stainless steel	✓
Internal/external finish - cleaned/ polished	✓
Lamp access - double ended	✓
Thermal drain	✓
Mounting - supplemental fixing bracket	✓
Connection size - inches	2
Connection type - male BSP thread	✓
Dimensions	Refer to general arrangement drawing
Reactor volume approx - litres	5.9
Total weight (dry) - kilograms	4.6
Operating pressure (max) - bar	10
Installation - horizontal/vertical	✓
Quartz sleeve type - high purity silica quartz	✓

<b>UV Lamp</b>	
Type	GER36XOSE
Lamp design - single ended	✓
Lamp power - watts	75
UVC output @ 254nm - watts	25
Quantity	1
Lamp life - hours	8760

<b>Control Panel</b>	
Material - powder coated mild steel	✓
Dimensions (W x H x L) - millimetres	500 x 400 x 200
Weight - kilograms	8.6
Mains power - VAC/PH/ Hz	110-240/1/50-60
Power consumption - watts	98
Protection: Type C - MCB	✓
Mains connection - DIN terminal	✓
Lamp power supply - electronic ballast	✓
Lamp leads	2.9m
Control type - programmable logic controller	✓
Interface - text button display	✓
Communication - Modbus TCP/IP, PROFINET, SIMATIC S7	✓
Order code to include UV intensity monitor	SS136SE4XOM

<b>Options</b>			
UV intensity monitor	System healthy	GSM text message system	LAN connection
Remote start/stop	Stop flow fault condition	Remote screen	Inlet/outlet configuration or size
Stainless steel	Remote UV level	Glass reinforcement plastic (GRP)	

# Technical Datasheet

## 5 Series

	SS236SE5XO	SS336SE5XO	
Certification - WRAS approved (240104704)	✓	✓	
<b>UV Reaction Chamber</b>			
Material construction - 316L stainless steel	✓	✓	
Internal/external finish - cleaned/ polished	✓	✓	
Lamp access - double ended	✓	✓	
Thermal drain	✓	✓	
Mounting - supplemental fixing bracket	✓	✓	
Connection size - inches	2	2	
Connection type - male BSP thread	✓	✓	
Dimensions	Refer to general arrangement drawing		
Reactor volume approx - litres	11	11	
Total weight (dry) - kilograms	11	11	
Operating pressure (max) - bar	10	10	
Installation - horizontal/vertical	✓	✓	
Quartz sleeve type - high purity silica quartz	✓	✓	
<b>UV Lamp</b>			
Type	GER36XOSE	GER36XOSE	
Lamp design - single ended	✓	✓	
Lamp power - watts	75	75	
UVC output @ 254nm - watts	25	25	
Quantity	2	3	
Lamp life - hours	8760	8760	
<b>Control Panel</b>			
Material - powder coated mild steel	✓	✓	
Dimensions (W x H x L) - millimetres	500 x 400 x 200	500 x 400 x 200	
Weight - kilograms	14	14	
Mains power - VAC/PH/ Hz	110-240/1/50-60	110-240/1/50-60	
Power consumption - watts	145	265	
Protection: Type C - MCB	✓	✓	
Mains connection - DIN terminal	✓	✓	
Lamp power supply - electronic ballast	✓	✓	
Lamp leads	2.9m	2.9m	
Control type - programmable logic controller	✓	✓	
Interface - text button display	✓	✓	
Communication - Modbus TCP/IP, PROFINET, SIMATIC S7	✓	✓	
Order code to include UV intensity monitor	SS236SE5XOM	SS336SE5XOM	
<b>Options</b>			
UV intensity monitor	System healthy	GSM text message system	LAN connection
Remote start/stop	Stop flow fault condition	Remote screen	Inlet/outlet configuration or size
Stainless steel	Remote UV level	Glass reinforcement plastic (GRP)	

# Technical Datasheet

## 6 Series

## SS436SE6XO

Certification - WRAS approved (240104704)	✓
<b>UV Reaction Chamber</b>	
Material construction - 316L stainless steel	✓
Internal/external finish - cleaned/ polished	✓
Lamp access - double ended	✓
Thermal drain	✓
Mounting - supplemental fixing bracket	✓
Connection size - inches	4
Connection type - male BSP thread	✓
Dimensions	Refer to general arrangement drawing
Reactor volume approx - litres	16
Total weight (dry) - kilograms	17.3
Operating pressure (max) - bar	10
Installation - horizontal/vertical	✓
Quartz sleeve type - high purity silica quartz	✓

## UV Lamp

Type	GER36XOSE
Lamp design - single ended	✓
Lamp power - watts	40
UVC output @ 254nm - watts	15
Quantity	3
Lamp life - hours	8760

## Control Panel

Material - powder coated mild steel	✓
Dimensions (W x H x L) - millimetres	500 x 400 x 200
Weight - kilograms	14
Mains power - VAC/PH/ Hz	110-240/1/50-60
Power consumption - watts	311
Protection: Type C - MCB	✓
Mains connection - DIN terminal	✓
Lamp power supply - electronic ballast	✓
Lamp leads	2.9m
Control type - programmable logic controller	✓
Interface - text button display	✓
Communication - Modbus TCP/IP, PROFINET, SIMATIC S7	✓

Order code to include UV intensity monitor	SS436SE6XOM
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## Options

UV intensity monitor	System healthy	GSM text message system	LAN connection
Remote start/stop	Stop flow fault condition	Remote screen	Inlet/outlet configuration or size
Stainless steel	Remote UV level	Glass reinforcement plastic (GRP)	