IONIX-UV
SERIES 4, 5 & 6

EVOLVE WATER

UK MANUFACTURER

COMMERCIAL & INDUSTRIAL

The Ionix-UV is a WRAS-approved ultraviolet disinfection system designed for safe, chemical-free water treatment.

Each system is supplied with a programmable logic controller (PLC), thermal drain, and UV intensity monitor.

Engineered for reliability and efficiency, the Ionix-UV delivers consistent performance with simple handling and low operating costs.

Applications

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

Temperatures

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

Regulatory

- ✓ WRAS Approval No: 240104723

Technical description

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

Flow rates (m3/h-r)	SERIES 4	SERIES 5(2)	SERIES 5(3)	SERIES 6
30 mJ/cm 2 @98% UVT	8.4	20.5	27.5	40
40 mJ/cm 2 @98% UVT	6.4	13.5	21.5	30
30 mJ/cm 2 @95% UVT	7.7	18	25.5	37
40 mJ/cm 2 @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

For the disinfection of clean water to meet relevant water standards

dwi

nqa ISO 9001 ISO 14001 INTEGRATED MANAGEMENT

UKAS MANAGEMENT SYSTEMS 0015

STAINLESS STEEL CHAMBER 10 YEAR GUARANTEE

IONIX-UV
SERIES 4

EVOLVE WATER

	UV-IONIX SERIES 4
Certification	WRAS approved (240104723)
UV REACTION CHAMBER	
Material construction	316L stainless steel
Internal/external finish	Cleaned/ polished
Lamp access	Double-ended
Thermal drain	Yes
Mounting	Supplemental fixing bracket
Connection size	2"
Connection type	Male BSP thread
Dimensions	Refer to general arrangement drawing
Reactor volume approx	5.9 L
Total weight (dry)	4.6 kg
Operating pressure (max)	10 bar
Installation	Horizontal/vertical
Quartz sleeve type	High purity silica quartz
UV LAMP	
Type	SS136XO4SE
Lamp design	Single-ended
Lamp power	98 W
UVC output @ 254 nm	25 W
Quantity	1
Lamp life	9000 hours
CONTROL PANEL	
Material	Powder coated mild steel
Dimensions (W × H × D)	500 × 400 × 200 mm
Weight	8.6 kg
Mains power	110-240 VAC, 1 Ph, 50-60 Hz
Power consumption	98 W
Protection	Type C MCB
Mains connection	DIN terminal
Lamp power supply	Electronic ballast
Lamp leads	2.9 m
Control type	Programmable logic controller
Interface	Text button display
Communication	Modbus TCP/IP, PROFINET, SIMATIC S7
UV intensity monitor	Yes
OPTIONS	
Remote UV level LAN connection Remote screen	System healthy Remote start/stop	GSM text message system Stop flow fault condition Stainless steel	Inlet/outlet configuration or size Glass reinforcement plastic (GRP)

IONIX-UV
SERIES 5

EVOLVE WATER

	UV-IONIX SERIES 5(2)	UV-IONIX SERIES 5(3)
Certification	WRAS approved (240104723)	
UV REACTION CHAMBER		
Material construction	316L stainless steel	
Internal/external finish	Cleaned/ polished	
Lamp access	Double-ended	
Thermal drain	Yes	
Mounting	Supplemental fixing bracket	
Connection size	2"	
Connection type	Male BSP thread	
Dimensions	Refer to general arrangement drawing	
Reactor volume approx	11 L	
Total weight (dry)	11 kg	
Operating pressure (max)	10 bar	
Installation	Horizontal/vertical	
Quartz sleeve type	High purity silica quartz	
UV LAMP		
Type	SS236XO5SE	SS336XO5SE
Lamp design	Single-ended	
Lamp power	144 W	265 W
UVC output @ 254 nm	25 W	
Quantity	2	3
Lamp life	9000 hours	
CONTROL PANEL		
Material	Powder coated mild steel	
Dimensions (W × H × D)	500 × 400 × 200 mm	
Weight	14 kg	
Mains power	110-240 VAC, 1 Ph, 50-60 Hz	
Power consumption	145 W	265 W
Protection	Type C MCB	
Mains connection	DIN terminal	
Lamp power supply	Electronic ballast	
Lamp leads	2.9 m	
Control type	Programmable logic controller	
Interface	Text button display	
Communication	Modbus TCP/IP, PROFINET, SIMATIC S7	
UV intensity monitor	Yes	

OPTIONS

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

IONIX-UV
SERIES 6

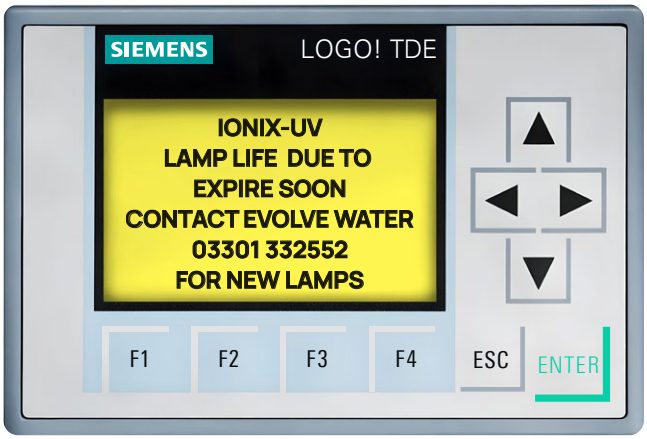
EVOLVE WATER

	UV-IONIX SERIES 6
Certification	WRAS approved (240104723)
UV REACTION CHAMBER	
Material construction	316L stainless steel
Internal/external finish	Cleaned/ polished
Lamp access	Double-ended
Thermal drain	Yes
Mounting	Supplemental fixing bracket
Connection size	4"
Connection type	Male BSP thread
Dimensions	Refer to general arrangement drawing
Reactor volume approx	16 L
Total weight (dry)	17.3 kg
Operating pressure (max)	10 bar
Installation	Horizontal/vertical
Quartz sleeve type	High purity silica quartz
UV LAMP	
Type	SS436XO6SE
Lamp design	Single-ended
Lamp power	311 W
UVC output @ 254 nm	15 W
Quantity	3
Lamp life	9000 hours
CONTROL PANEL	
Material	Powder coated mild steel
Dimensions (W × H × D)	500 × 400 × 200 mm
Weight	14 kg
Mains power	110-240 VAC, 1 Ph, 50-60 Hz
Power consumption	311 W
Protection	Type C MCB
Mains connection	DIN terminal
Lamp power supply	Electronic ballast
Lamp leads	2.9 m
Control type	Programmable logic controller
Interface	Text button display
Communication	Modbus TCP/IP, PROFINET, SIMATIC S7
UV intensity monitor	Yes
OPTIONS	
Remote UV level LAN connection Remote screen	System healthy Remote start/stop	GSM text message system Stop flow fault condition Stainless steel	Inlet/outlet configuration or size Glass reinforcement plastic (GRP)

Controls

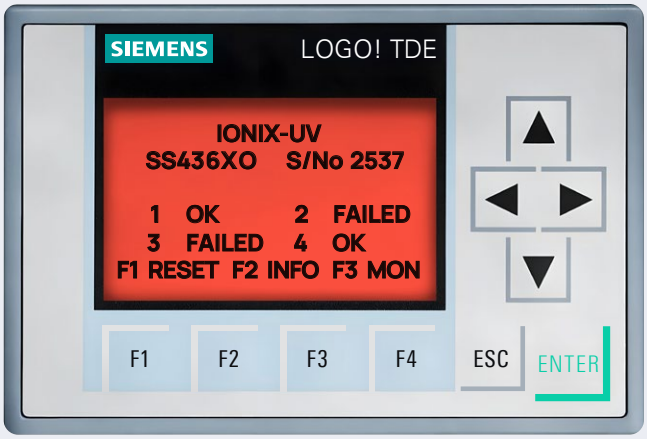
Front Panel

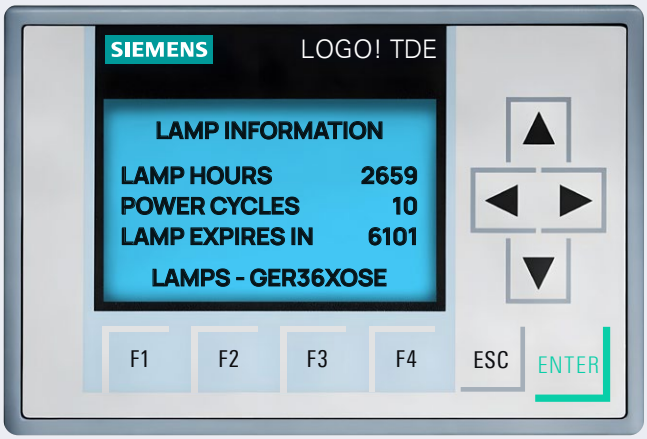
- ✓ Main isolator switch for system on/off
- ✓ LCD text display screen



Display information

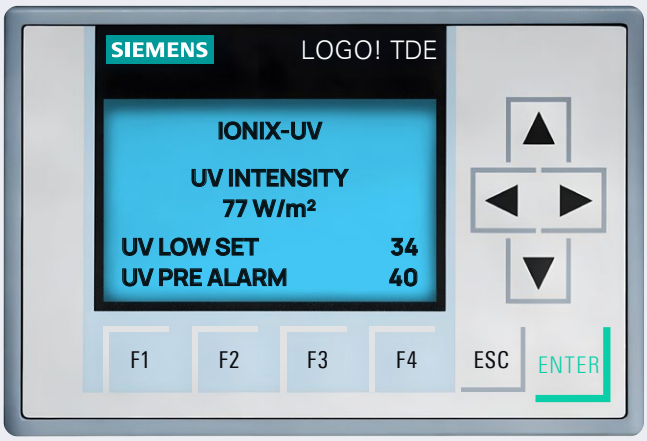
- ✓ Lamp hours – counts total operating hours per lamp
- ✓ Power cycles – adds one each time the unit powers on
- ✓ Lamp expiry – countdown from 8,760 hours (1 year)
- ✓ Lamp type – identifies lamp specification





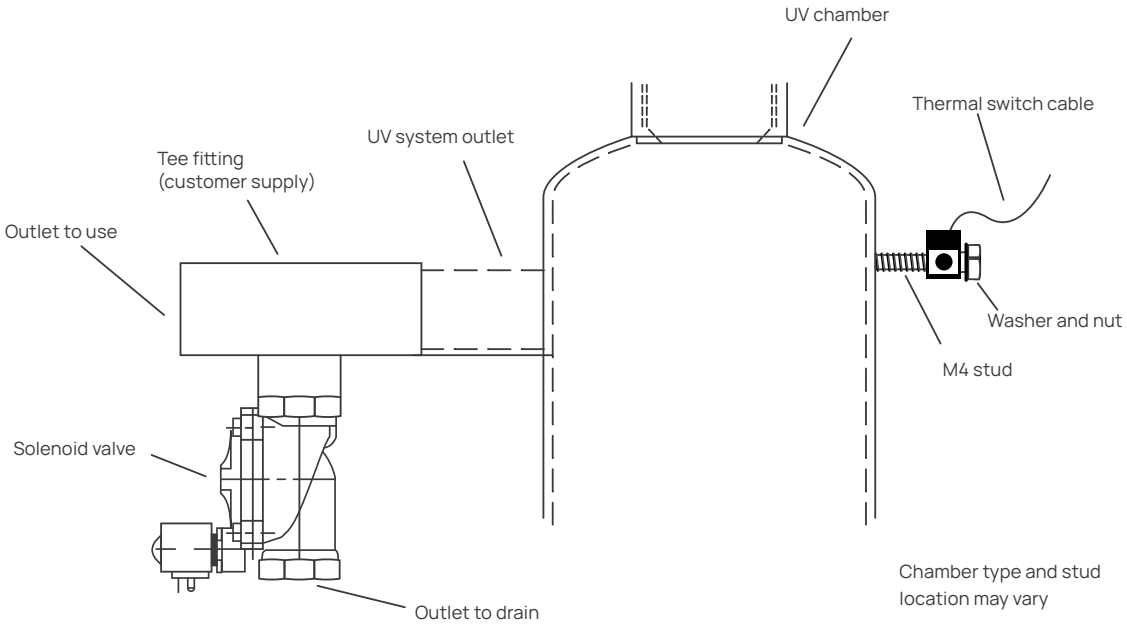
UV Intensity Monitor

- ✓ Displays current UV intensity and pre-alarm thresholds



Thermal drain

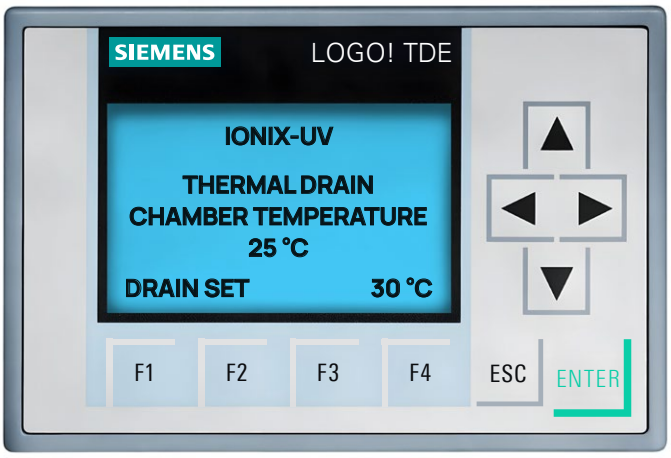
- ✓ Thermal switch mounted externally on chamber to signal high temperature (set via PLC)
- ✓ Switch closes on rising temperature to activate solenoid
- ✓ ½" BSP normally closed solenoid valve supplied for chamber outlet
- ✓ Water supply must be available when solenoid opens
- ✓ Install solenoid on chamber outlet; outlet must drain safely or return to a large-capacity storage tank
- ✓ For vertical installations, position thermal sensor uppermost
- ✓ When activated, solenoid opens to drain chamber and reduce temperature



- ✓ The thermal switch cable is to be attached as shown above. If mounting vertically, install the chamber so the sensor is uppermost
- ✓ The solenoid opens to allow flow through the chamber to drain
- ✓ The outlet of the solenoid should be taken to drain, or can be returned to a storage tank if the capacity is large enough to cause only a small temperature rise

Thermal drain display

- ✓ Shows chamber temperature and drain set point



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