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: 240104704

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 (240104704)	✓
UV REACTION CHAMBER	
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	✓
UV LAMP	
Type	GER36XOSE
Lamp design - single ended	✓
Lamp power - watts	75
UVC output @254nm - watts	25
Quantity	1
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	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	✓
UV intensity monitor	✓

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 5

EVOLVE WATER

	UV-IONIX SERIES 5(2)	UV-IONIX SERIES 5(3)
Certification - WRAS approved (240104704)	✓	✓
UV REACTION CHAMBER		
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	✓	✓
UV LAMP		
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
CONTROL PANEL		
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	✓	✓
UV intensity monitor	✓	✓

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 (240104704)	✓
UV REACTION CHAMBER	
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	✓
UV intensity monitor	✓

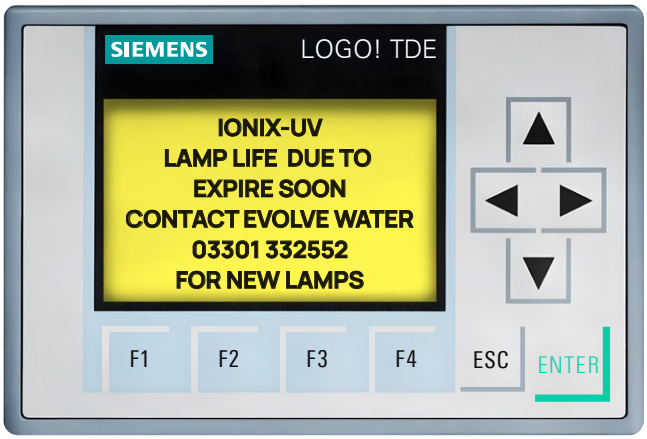
OPTIONS

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	

Controls

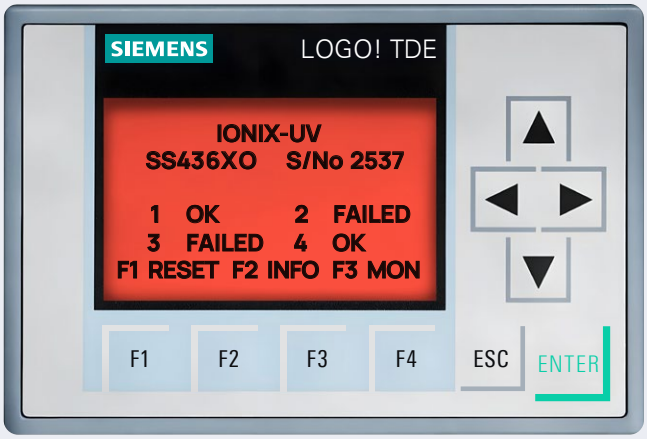
Front Panel

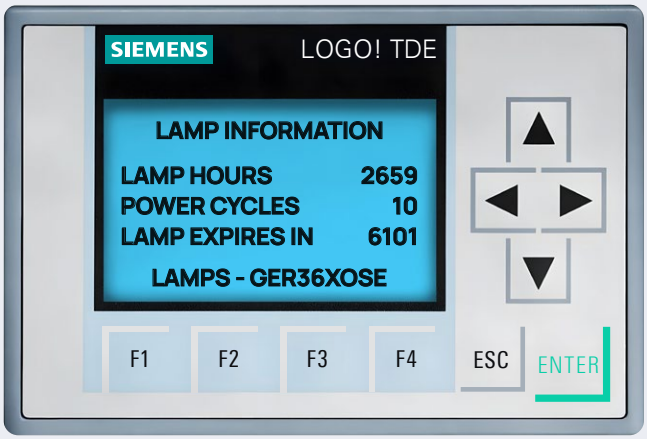
- ✓ Main isolator switch for system on/off
- ✓ LCD text display screen



Display information

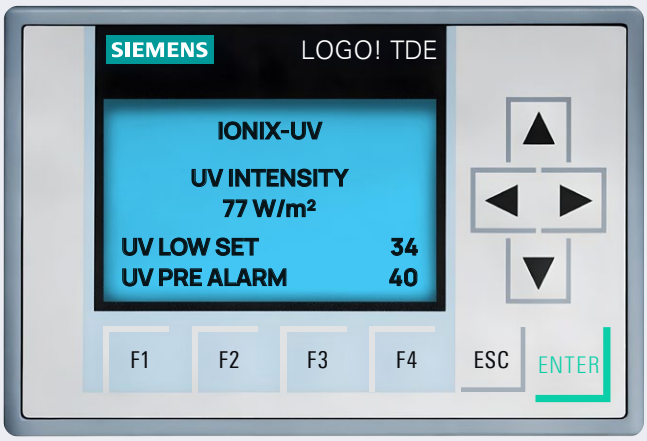
- ✓ Lamp hours – counts total operating hours per lamp
- ✓ Power cycles – adds one each time the unit powers on
- ✓ Lamp expiry – countdown from 8,760 hours (1 year)
- ✓ Lamp type – identifies lamp specification





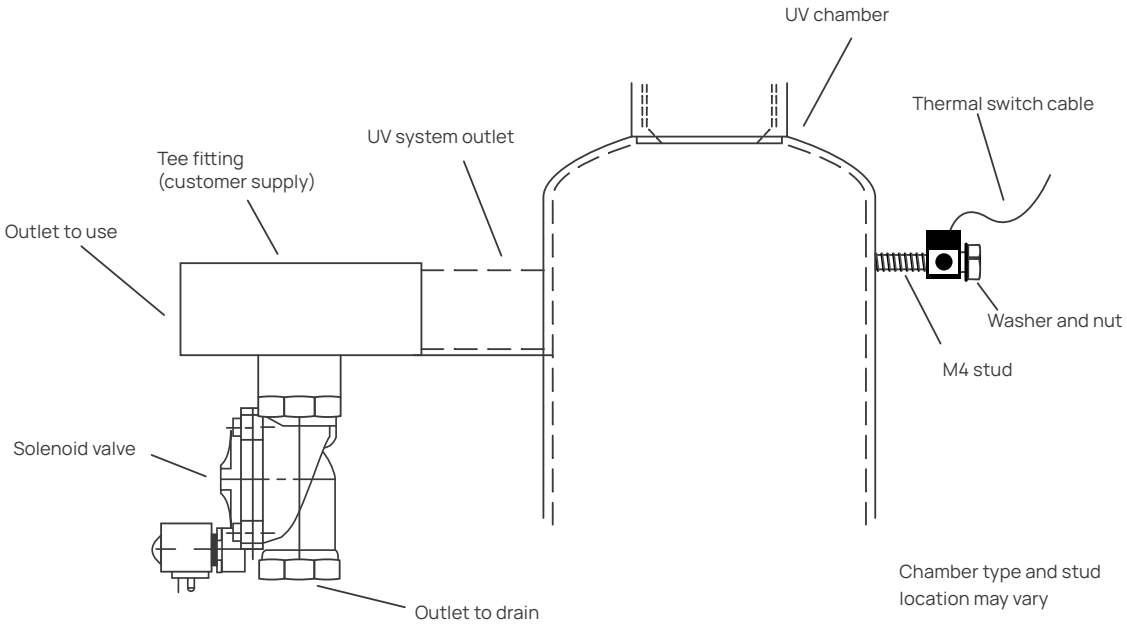
UV Intensity Monitor

- ✓ 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