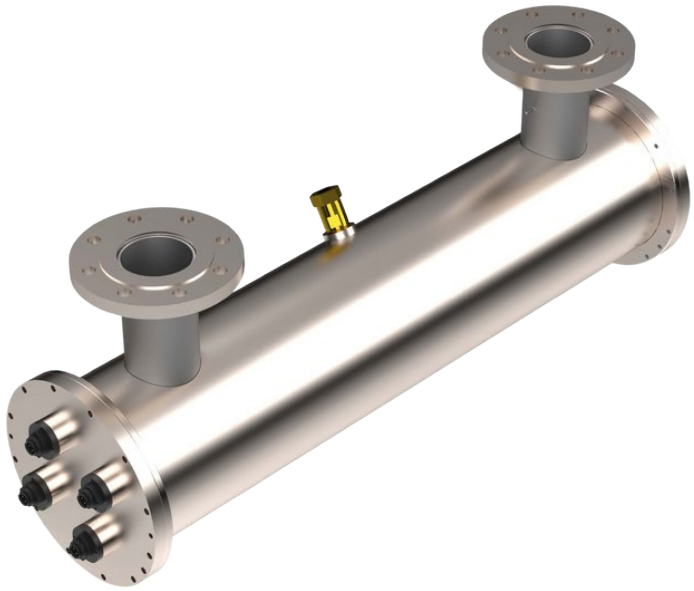
IONIX-UV
SERIES 7

EVOLVE WATER

UK MANUFACTURER

COMMERCIAL & INDUSTRIAL

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.



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

Regulatory
- ✓ WRAS Approval No: 2304333

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

Flow rates (m^3/hr)	SERIES 7 1M	SERIES 7 2M	SERIES 7 4M
30 mJ/cm² @98% UVT	78	130	260
40 mJ/cm² @98% UVT	51	93	195
30 mJ/cm² @95% UVT	60	90	231
40 mJ/cm² @95% UVT	32	59	160

All flows are calculated at end of lamp life time
Please contact us for further information regarding flow rates

dwi

nqa ISO 9001 ISO 14001 INTEGRATED MANAGEMENT | UKAS MANAGEMENT SYSTEMS 0015

STAINLESS STEEL CHAMBER 10 YEAR GUARANTEE

WRAS APPROVED PRODUCT

UK MANUFACTURER

	SERIES 7 1M	SERIES 7 2M	SERIES 7 4M
Certification	WRAS approved (2304333)		
UV REACTOR CHAMBER			
Material construction	316L stainless steel		
Internal/external finish	Cleaned/ polished		
Lamp access	Single-ended		
Thermal drain	Yes		
UV intensity monitor	Yes		
Connection size	DN100 PN16		
Connection type	Flanged		
Dimensions	Refer to general arrangement drawing		
Volume approx	60 L	55 L	50 L
Total weight (dry) approx	32 kg	36 kg	40 kg
Operating pressure (max)	16 bar		
Installation	Horizontal/vertical		
Quartz sleeve type	High purity silica quartz		
Protection class	IP56		
UV LAMP			
Type	GERAMA300		
Lamp design	Single ended 4 pin low pressure amalgam		
Lamp power	325 W		
UVC output @ 254 nm	116 W		
Quantity	1	2	4
Lamp life	12 000 hours		
CONTROL PANEL			
Material	Powder coated mild steel		
Dimensions (W × H × D)	500 × 400 × 200 mm	500 × 400 × 200 mm	600 x 400 x 200 mm
Weight approx	15 kg	18 kg	22 kg
Mains power	220-240 VAC, 1 Ph, 50-60 Hz		
Power consumption	375 W	700 W	1 350 W
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		

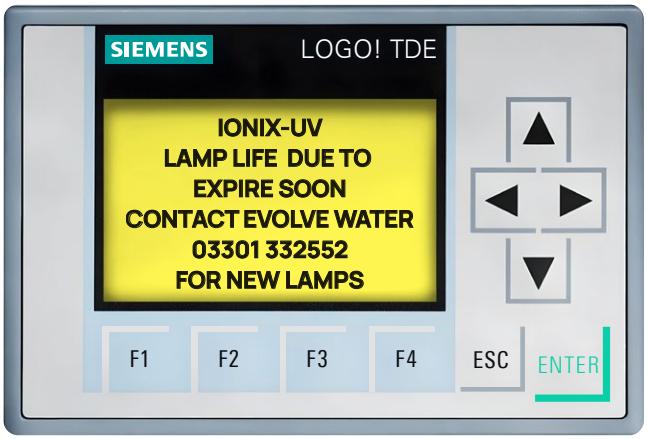
OPTIONS

Remote start/stop
Remote UV level
Inlet/outlet configuration or size
System healthy
Remote screen
Bespoke branded interface
GSM text message system
Stop flow fault condition
LAN connection

Controls

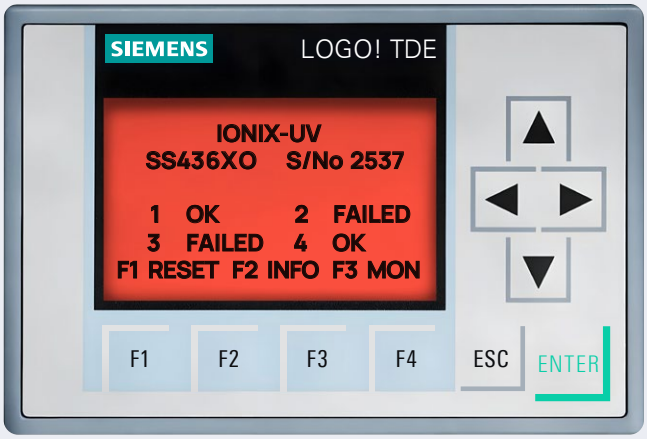
Front Panel

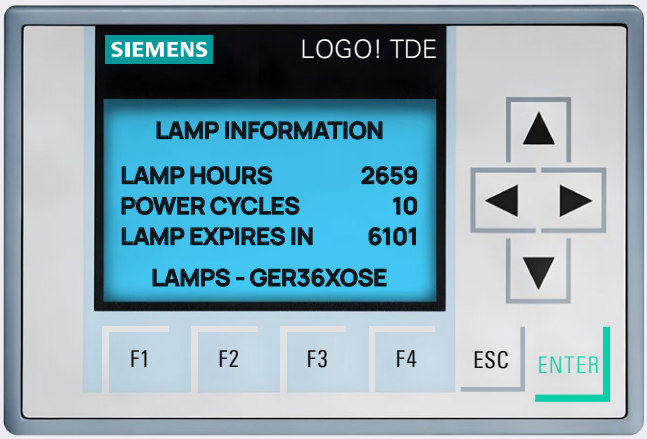
- ✓ Main isolator switch for system on/off
- ✓ LCD text display screen



Display information

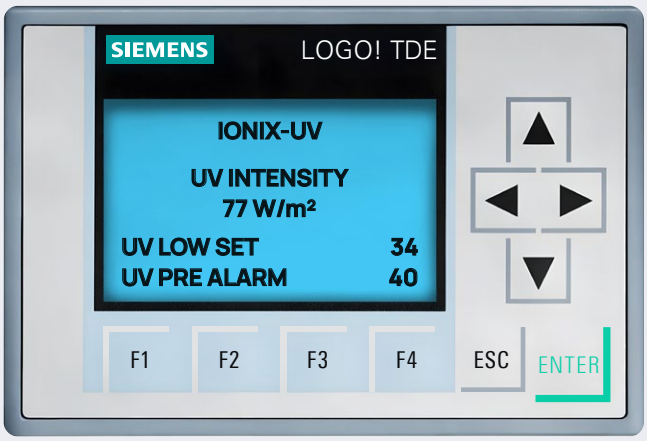
- ✓ Lamp hours – counts total operating hours per lamp
- ✓ Power cycles – adds one each time the unit powers on
- ✓ Lamp expiry – countdown from 8,760 hours (1 year)
- ✓ Lamp type – identifies lamp specification





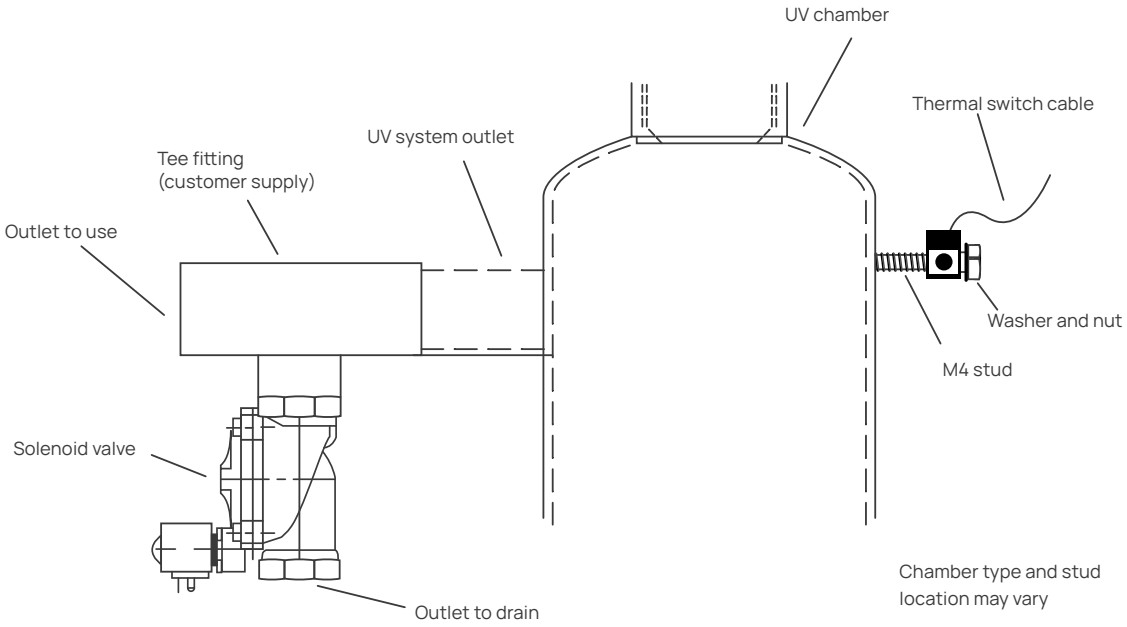
UV Intensity Monitor

- ✓ Displays current UV intensity and pre-alarm thresholds



Thermal drain

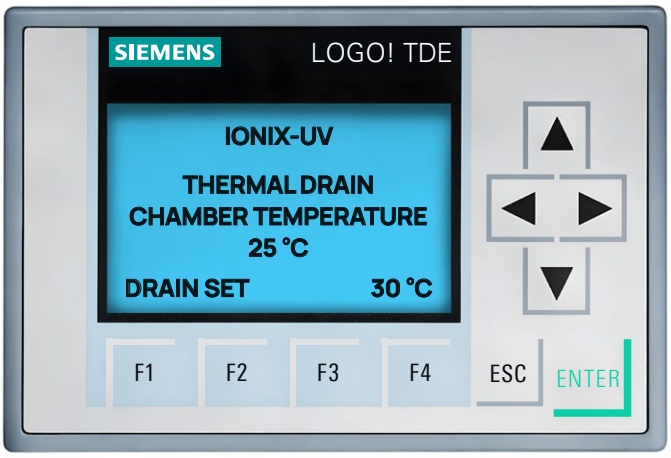
- ✓ Thermal switch mounted externally on chamber to signal high temperature (set via PLC)
- ✓ Switch closes on rising temperature to activate solenoid
- ✓ ½" BSP normally closed solenoid valve supplied for chamber outlet
- ✓ Water supply must be available when solenoid opens
- ✓ Install solenoid on chamber 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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