



WDU-LP Series Low-Pressure UV Disinfection Systems

Designed for hygienic process water applications and industrial water treatment

Key Specifications at a Glance

- 65W–600W model range
- High-output low-pressure UV technology
- Fixed or adjustable power configuration
- Optional online UV monitoring (ÖNORM-certified)
- 316L stainless-steel chamber
- PLC + HMI control
- Modbus communication
- Maximum operating pressure: 10 bar

The WDU-LP Series is intended for UV disinfection duties in process water systems where hygienic design requirements apply, as well as in general industrial water treatment applications. A 316L stainless-steel chamber, 0.6 μm Ra internal finish, and sanitary Tri-clamp or flange process connections support straightforward integration into standardized process lines.

Efficient Low-Pressure UV Design for Disinfection Performance and Energy Control

Using high-output low-pressure UV lamps, the range covers models from 65W to 600W with fixed or adjustable power configurations. This supports reliable disinfection performance together with practical energy control across different operating conditions. Lamp life is specified up to 16,000(A)/12,000(HO) hours.

Smart Control and Online Monitoring for Easy System Integration

PLC + HMI control, Local or Modbus communication, online temperature detection, and optional ÖNORM-certified online UV monitoring provide clear operational visibility and support efficient integration with plant control systems.

Compact Construction and Single-End Service Access for Reliable Continuous Operation

Horizontal installation, single-end lamp access, and integrated vent and drain ports simplify layout planning and routine service. A dedicated control cabinet supports orderly installation and dependable continuous operation.



WDU-LP Series Low-Pressure UV Disinfection Systems

Common Specifications

WDU-LP Series	
Certificate	CE Marked
UV Lamps and Monitoring	
Lamp Type	High output UV lamp
Expected Life-time	16,000(A)/12,000(HO) hours
UV Monitoring	Online UV sensor / Önorm certified (optional)
Power Range	UV power fixed or adjustable
Stainless-steel Chamber	
Process-connection	Sanitary Tri-clamp fitting or flange
Operating Pressure	Max. 10bar
Material	316L
Internal Finish	0.6µm Ra
Lamp Access	Single-end access
Wiper System	Optional
Vent & Drain ports	Yes
Temper. Monitor	Online temperature detector
Installation	Horizontal only
Control Cabinet	
Cabinet *	Standard Coating-RAL7035 IP54
Control & Interface	PLC+HMI
Communication	Local/Modbus
Lamp-driver	Electrical Ballast
Electrical Data	
Ambient temper.	Maximum ambient temperature 45°C
Electrical supply	AC220V -50Hz L/N/PE

*Note: Cabinet material is selected with SS304.

Model Comparison

Model	Lamp Power	Lamp Qty.	Connection Size	Power Consumption
WDU-LP65	65W	1	DN40/1.5"	80W
WDU-LP100	100W	1	DN50/2"	150W
WDU-LP200	200W	1	DN50/2"	250W
WDU-LP300	300W	1	DN65/2.5"	360W
WDU-LP400	200W	2	DN80/3"	480W
WDU-LP600	300W	2	DN80/3"	680W

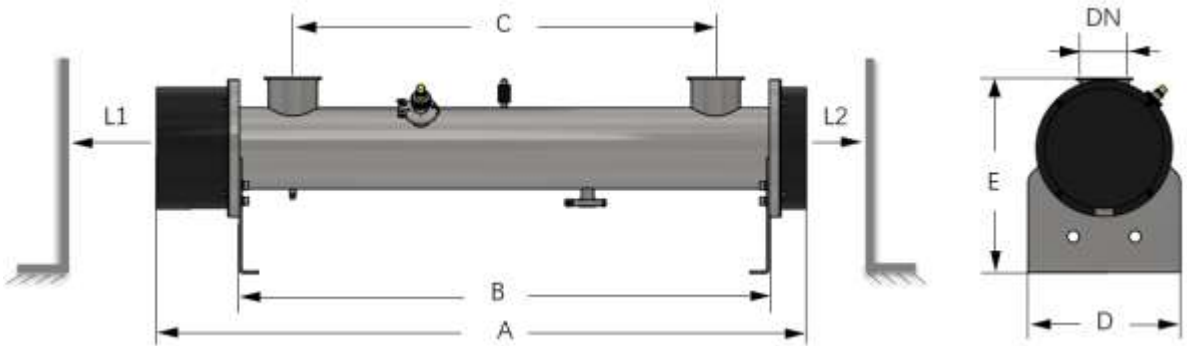
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Dimensions & Installation

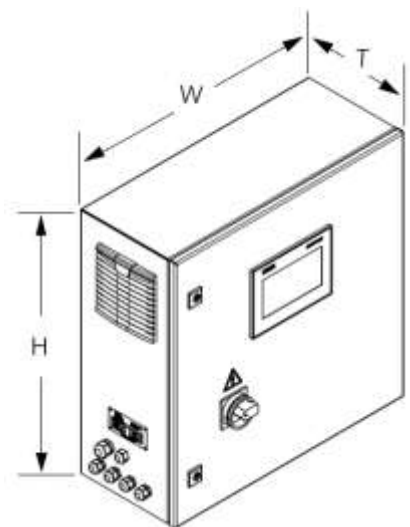
► UV Chamber Dimensions



Model	A	B	C	D	E	L1	L2	Weight (kg)
WDU-LP65	1125	885	650	230	275	1000	300	40
WDU-LP100	1345	1105	880	230	275	1200	300	50
WDU-LP200	1345	1105	880	230	275	1200	300	50
WDU-LP300	1790	1550	1325	230	275	1600	300	60
WDU-LP400	1352	1105	880	320	430	1200	300	75
WDU-LP600	1800	1550	1325	320	430	1600	300	85

► Control Box Dimensions

Model	Size (H×W×T)	Cable Length	Weight (kg)
WDU-LP65	600×600×250	Standard 5m (Max.10m optional)	30
WDU-LP100	600×600×250	Standard 5m (Max.10m optional)	30
WDU-LP200	600×600×250	Standard 5m (Max.10m optional)	30
WDU-LP300	600×600×250	Standard 5m (Max.10m optional)	30
WDU-LP400	600×600×250	Standard 5m (Max.10m optional)	32
WDU-LP600	600×600×250	Standard 5m (Max.10m optional)	32



*Note:

Unless otherwise specified, all dimensions are in mm.

The maximum cable length refers to the length of the connecting cable from the control box to the UV Chamber. If there are any other requirements, please contact us.

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About UIEX

UIEX, headquartered in Delaware USA is a global leader in professional photon solutions. We are committed to being the world's premier choice for special light solutions, with applications spanning industrial manufacturing, agricultural production scientific research ,municipal water treatment, and other fields.

UIEX thrives on providing superior products and delivering unbeatable services. Our highly trained team of engineers is ready to assist you and can provide the technical support you need.



An advanced global supplier of special-light solutions

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