

# UV Water Treatment

## UV Disinfection



Ultra Violet (UV) technology is an effective chemical-free technology for water disinfection: Optimum hydraulic design for uniform treatment ; Version built to cGMP requirements available for pharmaceutical and sanitary applications.

Capacity:  
up to **116 m<sup>3</sup>/hr** for disinfection  
up to **38 m<sup>3</sup>/hr** for deoxygenation

### Features & benefits:

- Compact, easy to install ; can be mounted horizontally or vertically depending the models
- Conveniently fit into existing pipework
- Easy to maintain and operate
- Low operation cost
- Silent operation
- Chemical-free process ; safety
- Environmentally-friendly: No production of toxic by-products
- Typical lamp operating life of up to 16,000 hours
- No effect on pH, colour, flavour or aroma
- No detrimental effect on product stability
- No residue
- Overdosing not possible
- UV Chamber in 316L stainless steel construction
- Quick replacement of Arc Tubes

### Applications

- Production of Ultra-pure water
- Pharmaceutical
- Cosmetics and toiletries industry
- Electronics and semiconductor industry
- General industries
- Destruction of residual ozone after disinfection and sanitisation (deoxygenation)

### Related services

Local after-sales service and support teams offer preventative and corrective maintenance programs to ensure the long-term, efficient operation of installed plant.

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## Specifications

Model	Max Flow		Power		Dia mm	Length mm +/- 5mm	Weight		Connections	
	m <sup>3</sup> /hr		W				kg		T - BSPT F - PN16 Flange TC – Triclamp	
	A	B	Lamp	Total			Empty	Full	Industrial	Pharma
UV 26	2.6	0.9	80	105	63	920	4.5	6	1”T	1”TC
UV 63	6.3	2.0	80	105	102	958	7	12.5	1½”T	1½”TC
UV 135	13.5	4.5	125	140	102	1388	9	17.5	2”T	2”TC
UV 265	26.5	8.7	270	305	102	1388	9	17.5	2”T	2”TC
UV 510	51	16.8	270	305	168	1437	24	51	3”F	3”TC
UV 1160	116	38	500	555	204	1980	46	107	6”F	6”TC

**A – Disinfection** at 30mJ/cm<sup>2</sup>, 98% T10 transmittance at the end of lamp life

**B – Deozonisation** at 90mJ/cm<sup>2</sup>, 98% T10 transmittance at the end of lamp life

## UV Chamber Specifications

Material	AISI 316L : DN 1.4404	Water Temperature	+5 to +40°C
Finish	Passivated & Electropolished	Maximum CIP Temperature	95°C
Protection	IP65 / NEMA 4	Average Internal Finish (Industrial)	1.0µm Ra
Max. Operating Pressure	10 bar	Average Internal Finish (Pharma)	0.5µm Ra
Mounting	Horizontal or Vertical*		

\* Note UV1160 cannot be mounted vertically.

## UV Lamp Specifications

**Long life** 254nm amalgam lamp.

**Lamp Life – Expected** 16,000 hours **Warranty** 9,000 hours. Based on less than 4 start/stop cycles per 24 hours.

## Documentation

All units are supplied with a Certificate of Conformity.

Pharma units are additionally supplied with material certificates and lamp output certificates.

## Control Box Specifications

Enclosure Material	Powder Coated Carbon Steel
Power Supply	230V 50/60Hz
Cable	5m maximum Control Box to UV Chamber
Ambient	+5 to +40°C
Indicator Lamps	Lamp On + Fault
Output (VFC)	Lamp On

UV 26 – UV 510	IP65 / NEMA 4
Dimensions/Weight	400 x 300 x 155 mm (excl Brackets) 15kg
UV1160	IP55 / NEMA12
Dimensions/Weight	600 x 400 x 210 mm (excl Brackets) 19kg

In keeping with the progressive nature of the company, we reserve the right to amend details without notice.

VWS CATALOGUE/UV Water Treatment/ AQF060\_EN\_V1.1

Visit our website:  
[www.veoliawaterst.com](http://www.veoliawaterst.com)