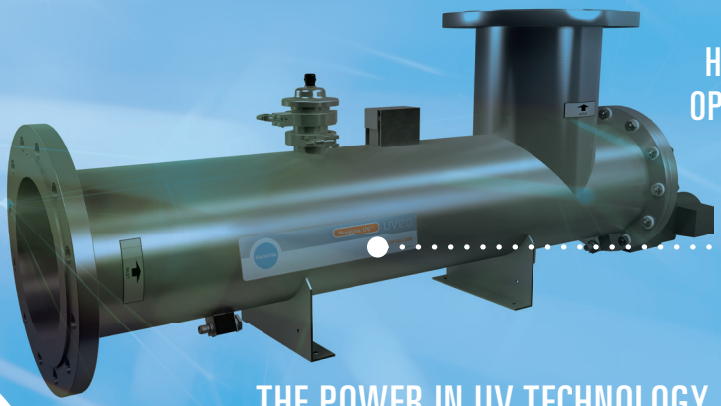
PureLine UV™

UVEO

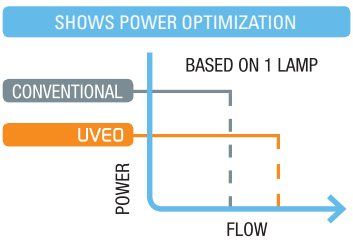
HYDRODYNAMIC DESIGN
OPTIMISED LAMP POWER
DOSE EFFICIENCY



THE POWER IN UV TECHNOLOGY FOR FOOD & DRINK

UVEO Technology powering a new generation of UV chambers, optimised for industry

Hanovia's New 'Ultraviolet Energy Optimisation' (UVEO) system technology has been designed and developed with industry requirements at the forefront, using 90 years of experience to deliver next generation technology for efficiency and effective water treatment today.



KEY FEATURES	WHAT IT GIVES YOU	BENEFITS FOR YOU
Optimised hydraulic chamber design	Maximum water treatment at highest efficiency	Up to 60% lower power use than other systems
Single lamp	Lower power use than comparative multi-lamp systems Lower maintenance costs compared to many multi-lamp systems	Saves money on lifecycle costs
UVGuard patented technology	Eyelid shutter shields you from escaping UV rays from the chamber	Allows safe verification of UV sensor without interrupting production
Stepless electronic ballast	Allows ballast power to be adjusted from 100 to 30% to optimise process conditions	Saves power during production
Hanovia's medium pressure lamp technology	Effective against all microbes including chlorine-resistant Cryptosporidium and Giardia	Effective disinfection Prolongs life of filter membrane technologies Does not affect taste and colour of final product
Designed for the food and beverage industry	Wetted parts use food grade approved materials *H edition designed for hygienic use with high specification internal finish	Fit for purpose Only pay for a high specification chamber if you need it
DVGW calibrated dry UV sensor	Allows accurate measurement of UV performance with ability to verify UV sensor without interrupting production	Optimum process security Improved performance awareness for operator prevents unplanned downtime

*See separate data sheet

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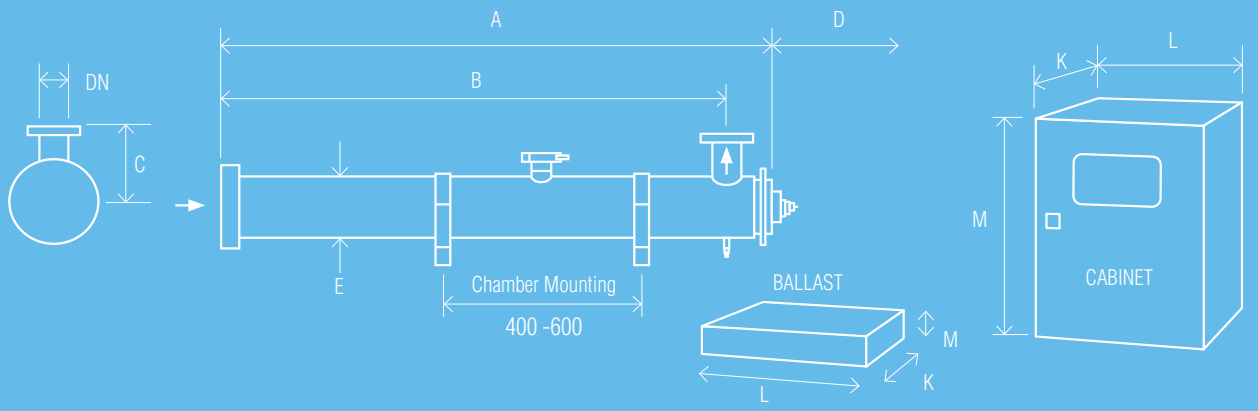
SCAN QR CODE FOR MORE INFORMATION



			Dimensions (mm)						Control			Ballast			Approx weight (Kg)		
Model	Max power kW*	Min. T10(%)	A	B	C	D	E	DN	K	L	M	K	L	M	Chamber (Empty)	Control	Ballast
UVEO 4	2.4	80	1009/ 1232 with motor	823	165	900	114	100	210	600	800	255	470	125	30	50	11
UVEO 6	3.3	80	1035/ 1286 with motor	850	245	950	168	150	210	600	800	255	470	125	44	50	11
UVEO 8	3.4	80	1110 / 1361 with motor	875	320	1000	210	200	210	600	800	255	470	125	65	50	11
UVEO 10	4.2	80	1190/ 1441 with motor	903	430	1100	273	250	210	600	800	255	470	125	96	50	11
UVEO 12	4.9	80	1430 / 1685 with motor	1093	475	1325	324	300	210	600	800	320	470	125	146	50	12

* The maximum connected power to the system with lamp at full power.

All dimensions are approximate for clearance purposes only. Hanovia has a policy of continuous product development, exact drawing are available on request. All specifications are subject to change without notification. Your distributor or Hanovia account manager can advise on correct dosage and specification requirements.

UV CHAMBER

Material:	StSt 316L / 1.4432
Internal finish:	As made pipe and tube, welds as laid electro-polished and passivated
External finish:	BSEN 10088-2 or 10088-3, 1J or 2J and ASTM No.4
Process (mating) connections:	Flange DN series PN16 rated
Drain connection:	Tri-clamp blanked off
End plate:	Removable end plate
Degree of electrical protection:	IP65 equivalent to NEMA 4 but not for outside use
Arc tube (lamp):	Medium pressure
Arc tube enclosure:	Pure quartz
Number of arc tubes (lamps):	1
Expected lamp life:	9000 hours
Temperature sensor:	Yes
UV sensor:	Pre-calibrated DVGW compliant dry sensor with UV Guard window
Working fluid temperature:	0°C to 60°C wiped 0°C to 80°C unwiped
Maximum CIP temperature:	95°C if CIP request acknowledged
Hydrostatically pressure tested:	Yes to PED requirements EN13445
Operating / Design pressure:	6 bar
Seals:	EPDM Food grade

OPTIONS

- Printed Operating Manual and Installation Guides in Chinese, English, French, German and Spanish
- Lead length: 30 m to chamber from control or ballast
- Internal finish: <0.6 µm welds ground out or 0.38 µm welds ground out electro-polished and passivated
- Maximum CIP temperature: 130°C if CIP request acknowledged
- Chamber Operating pressures: 10 bar and 16 bar
- Flange options: Table 'E', JIS, ANSI 150 and Tri-clamp
- Vent: Tri-clamp connection
- Bleed: Tri-clamp connection with or without valve
- Wiper: Automatic (electrically driven)
- Lamp access: Electrical safety cut-out
- Cabinet materials: Stainless steel 304 flat roof or 316 sloping roof
- Water leak detection: Detects water leaks from quartz thimble (VFC output)
- Documentation Support Pack
- In-field UV reference sensor kit
- Aggressive water packages for 400 ppm to 20000 ppm chloride

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CABINET

Material:	Polyester coated carbon steel
Degree of protection:	IP65/NEMA 4
Supply voltages:	380 to 480 V 50/60 Hz (2 ph L1, L2)
Operating temperature range:	5°C to 45°C
Relative Humidity:	<95% non-condensing
Cooling fans:	No
Interconnecting cable lengths:	1 m to ballast 10 m to chamber

CUSTOMER OUTPUTS

4-20 mA passive outputs:	UV Intensity, UV dose and temperature
VFC outputs:	Lamp ready (enable flow), System running, Common warning, Common trip, Low UV warning, OK to CIP, System in remote, 3 configurable
24 V dc output:	Bleed valve

CUSTOMER INPUTS

4-20 mA inputs:	Flow meter and Transmittance meter
VFC inputs:	Remote start/stop, CIP Inhibit, reduce power
24 V dc pulsed input:	Start and stop

CUSTOMER COMMUNICATION PORT

Modbus:	RS 485

BALLAST

Enclosure material:	Plastic and aluminium
Degree of protection:	IP65/NEMA 4
Supply voltages:	380 to 480 V 50/60 Hz (2 ph L1, L2)
Operating temperature range:	5°C to 45°C
Relative humidity:	<95% non-condensing
Cooling fans:	Yes
Interconnecting cable lengths:	1 m to cabinet 10 m to chamber
Power adjustment:	Stepless variable power

APPROVALS

CE marked

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