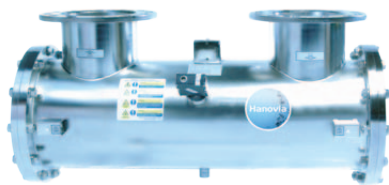
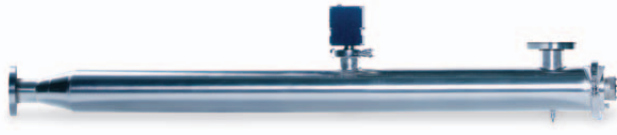


Hanovia

PureLine DO

Complete Range



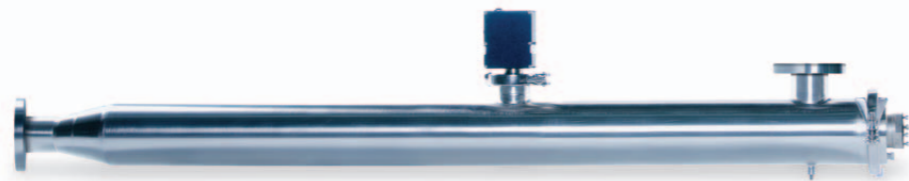
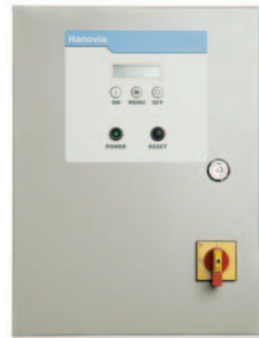
Technical Specification

Model	Maximum Treatment Capacity * (m ³ /hr)	Min. T ₁₀ (%)	Flange Size DN	Approx Weight (Kg)		
				Chamber (Empty)	Power Supply	Power (W)
PureLine DO 0005	4.5	90	50	9	18	270
PureLine DO 0008	8.4	90	80	20	18	270
PureLine DO 0020	19.6	90	80	46	22	550
PureLine DO 0027	27	90	80	45	85	1200
PureLine DO 0031	31	90	80	50	85	2500
PureLine DO 0057	57	90	100	50	85	3500
PureLine DO 0078	78	90	100	65	85	3500
PureLine DO 0119	119	90	150	65	165	5500
PureLine DO 0181	181	93	150	140	165	5500
PureLine DO 0255	255	90	200	140	165	7000

* The maximum treatment capacity is based on a 90% reduction of ozone at T₁₀ 98%

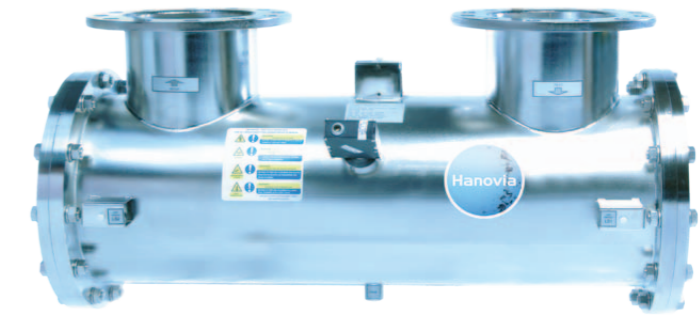
PureLine DO

PureLine DO (De-Ozonation)
Models DO 0005 - DO 0020



PureLine DO

PureLine DO (De-Ozonation)
Models DO 0027 - DO 0255



Technical Specification

UV Chamber

Material:	StSt 316L / 1.4404
Internal finish:	As made pipe and tube, welds left as laid electropolished and passivated
External finish:	Sateen polish (120 grit) electropolished and passivated
Process (mating) connections:	Flange DN series PN16 rated
Drain connection:	BSPT
End plate:	Removable tri-clamp except DO 0020 which is a bolted plate
Degree of protection:	IP65 equivalent to NEMA 4 but not suitable for outside use
Arc tube (lamp):	Low pressure amalgam / high purity quartz
Arc tube enclosure:	High purity quartz
Number of lamps:	1
Expected lamp life:	12000-16000 hours
Temperature sensor:	On DO 0020 only
UV monitor:	Wet UV monitor
Working fluid temperature:	+5°C to +40°C
Maximum CIP temperature:	95°C with control cabinet electrically isolated
Hydrostatically pressure tested:	Yes to PED requirements EN13445
Operating / Design pressure:	6 bar / 7 bar
Pressure Loss:	Typically < 5 mbar
Seals:	EPDM FDA approved

Cabinet

Material:	Polyester coated carbon steel
Degree of protection:	IP65 / NEMA 4 except DO 0020 which is IP55 / NEMA12
Supply voltages:	230V (270V to 253V) or 115V (104V to 126V except DO 0020) 50/60Hz
Operating temperature range:	+5°C to +40°C
Relative humidity:	<90%
Cooling fans:	On DO 0020
cable length:	5m
External contacts:	4-20mA signal for UV intensity %, Volt Free Contacts for Lamp On, Low UV warning

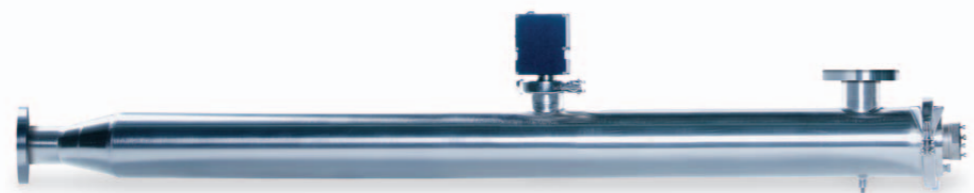
Technical Specification

UV Chamber

Material:	StSt 316L / 1.4404
Internal finish:	As made pipe and tube, welds left as laid electropolished and passivated
External finish:	Sateen polish (120 grit) electropolished and passivated
Process (mating) connections:	Flange DN series PN16 rated
Drain connection:	BSPT
End plate:	Removable bolted plates
Degree of protection:	IP65 equivalent to NEMA 4 but not suitable for outside use
Arc tube (lamp):	Medium pressure / high purity quartz
Arc tube enclosure:	High purity quartz
Number of lamps:	1
Expected lamp life:	4000-8000 hours
Temperature sensor:	Yes
UV monitor:	Wet UV monitor (down to minimum T_{10})
Working fluid temperature:	+5°C to +60°C
Maximum CIP temperature:	95°C with control cabinet electrically isolated
Hydrostatically pressure tested:	Yes to PED requirements EN13445
Operating / Design pressure:	6 bar / 7 bar
Pressure Loss:	Typically < 50 mbar
Seals:	EPDM FDA approved

Cabinet

Material:	Polyester coated carbon steel
Degree of protection:	IP54 equivalent to NEMA 12
Supply voltages:	Up to 2.5kW 95V to 260V (nominal) 50/60Hz 3.5 to 7.0kW 190V to 500V (nominal) 50/60Hz >7.0kW 300V to 500V (nominal) 50/60Hz
Operating temperature range:	+5°C to +40°C
Relative humidity:	<90%
Cooling fans:	Yes
cable length:	10m
External contacts:	4-20mA signal for UV intensity, Volt Free Contacts for Local/Remote, System Available, Lamp Ready, System Warning, Common Alarm, Low UV Intensity, ELCB Trip



PureLine DO

PureLine DO (De-Ozonation)
Models DO 0005 - DO 0020

Product Specific Data

Features

Operational Features:

- Lamp on/off
- Remote start/stop
- Alarm rest button
- Low UV warning
- Horizontal mounting for all or vertical mount except for DO 0020

Screen Display Features:

- 2 line x 16 character backlit LCD with indication of System Status
- Remote mode
- UV intensity %
- Warning and trip messages
- Total hours run
- English language

Alarm Message Features:

- Lamp fail
- Low UV % intensity
- Unit tripped

Safety Features:

- Door interlocked cabinet isolator
- Separate door lock
- Resettable circuit breaker
- Power on LED

Options

- Validation Support Pack
- Stainless steel cabinet (304)
- Printed operating, menu and safety guides in Chinese, French and German
- Uvtronic control 230V (207 to 263V) CE and UL approved with pre-calibrated DVGW compliant dry UV monitor
- Tri-clamp connections to BS 4825 with tri-clamp drain, chamber internal finish <math><0.38\mu\text{m}</math> Ra maximum welds as laid electropolished and passivated
- ANSI 150 flanges and NPT drain
- CIP maximum 130°C with lamp off

Approvals

- CE following the low voltage and EMC directives conforming to EN61000-3-2, 3-3, 6-2 and 6-4 230V version only

Additional Information

All dimensions are approximate for clearance purposes only. Hanovia has a policy of continuous product development, exact drawings are available on request. All specifications are subject to change without notification. Your Distributor or Hanovia Account Manager can advise on correct dosage and specific requirements.

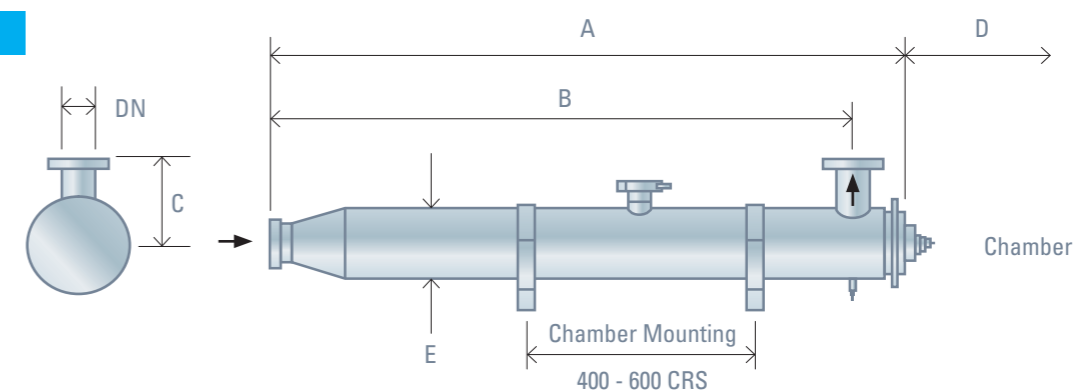
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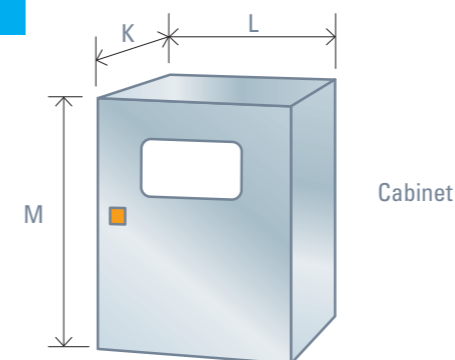
Certificate No: FM29365

Dimensions (mm)

Chamber:



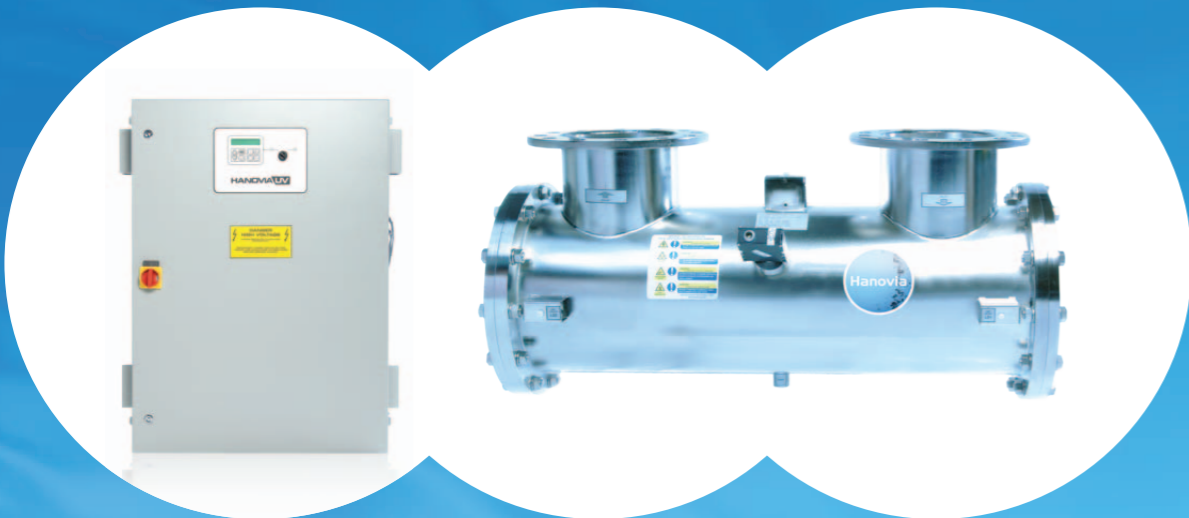
Cabinet:



Model	Maximum Treatment Capacity* (m ³ /hr)	Min. T ₁₀ (%)	Dimensions (mm) unwiped dimensions			D	E	DN	230V unwiped			110V			Approx Weight (Kg) Chamber (Empty)	Power Supply	Power (W)
			A	B	C				K**	L**	M**	K**	L**	M**			
PureLine DO 0005	4.5	90	1385	1273	150	1300	102	50	225	300	550	275	400	750	9	18	270
PureLine DO 0008	8.4	90	1437	1300	200	1300	168	80	225	300	550	275	400	750	25	18	270
PureLine DO 0020	19.6	90	1985	1825	250	1900	206	80	275	700	750	275	700	750	46	22	550

* The maximum treatment capacity is based on a 90% reduction of ozone T₁₀ >98%

** Cabinet dimensions allow for door isolator, cable entry and bracket space and fan space



PureLine DO

PureLine DO (De-Ozonation)
Models DO 0027 - DO 0255

Product Specific Data

Features

Operational Features:

- Lamp on/off
- Remote start/stop
- Selectable auto restart following power failure
- Event log
- Horizontal mounting only

Screen Display Features:

- 2 line x 20 character VFD with indication of System Status
- Remote mode
- UV intensity in mW/cm² or relative intensity (%)
- Warning and trip messages
- Total hours run
- Spares listing
- English language

Alarm Message Features:

- Lamp fail
- Low UV intensity
- ELCB trip
- Power failure
- Chamber over temperature
- Power supply over temperature warning and trip

Safety Features:

- Door interlocked cabinet isolator
- Separate door locks
- Power supply thermal cut out
- Resettable circuit breaker
- Earth leakage trip

Options

- Validation Support Pack
- Stainless steel cabinet (316)
- Printed operating, menu and safety guides in Chinese, French and German
- Tri-clamp connections to BS 4825 with tri-clamp drain
- Chamber internal finish <0.38µm Ra maximum welds ground out electropolished and passivated
- ANSI 150 flanges and NPT drain
- Lead length 30m or 50m
- CIP maximum 130°C with cabinet electrically isolated

Approvals

- CE following the low voltage and EMC directives conforming to EN50081-1, EN61000-4-2, 4-3, 4-5, 4-6, 4-8 and 4-11
- UL listed E149108

Additional Information

All dimensions are approximate for clearance purposes only. Hanovia has a policy of continuous product development, exact drawings are available on request. All specifications are subject to change without notification. Your Distributor or Hanovia Account Manager can advise on correct dosage and specific requirements.

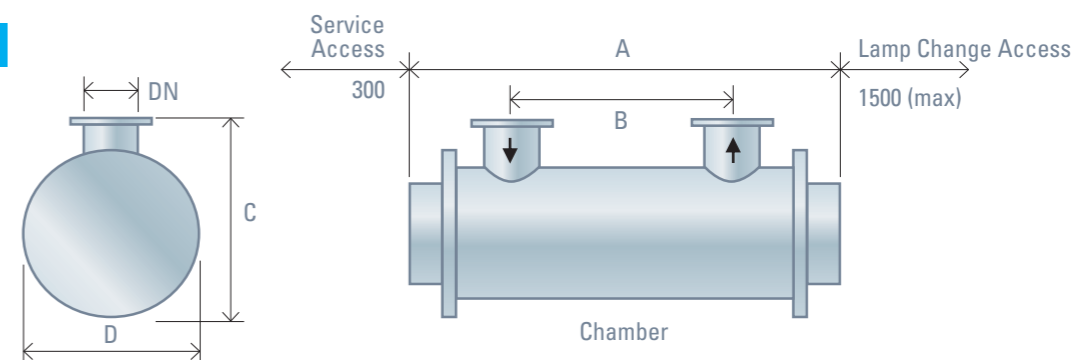
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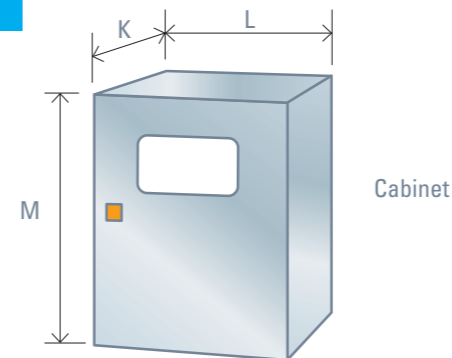
Certificate No: FM29365

Dimensions (mm)

Chamber:



Cabinet:



Model	Maximum Treatment Capacity* (m ³ /hr)	Min. T ₁₀ (%)	Dimensions (mm)								Approx Weight (Kg)		
			A	B	C	D	DN	K**	L**	M**	Chamber (Empty)	Power Supply	Power (W)
PureLine DO 0027	27	90	850	240	319	240	80	370	750	850	45	85	1200
PureLine DO 0031	31	90	1300	710	319	240	80	370	750	850	50	85	2500
PureLine DO 0057	57	90	1300	710	319	240	100	370	750	850	50	85	3500
PureLine DO 0078	78	90	1300	710	420	290	100	370	750	850	65	85	3500
PureLine DO 0119	119	90	1300	660	420	290	150	370	900	1100	65	165	5500
PureLine DO 0181	181	93	1300	660	505	410	150	370	900	1100	140	165	5500
PureLine DO 0255	255	90	1300	610	505	410	200	370	900	1100	140	165	7000

* The maximum treatment capacity is based on a 90% reduction of ozone at T₁₀ >98%

** Cabinet dimensions allow for door isolator, cable entry and bracket space



Eight decades of continuous development has put Hanovia at the forefront of UV science and technology.

Working with the biggest names in food, beverage, electronics, pharmaceutical, aquaculture, pools and leisure, and many other industries, we have gained valuable insights into our customers' requirements and this enables us to offer you not only the finest UV systems, but a full UV solution for your industrial or leisure water treatment problems – all backed by first class technical and service support, available wherever you are around the World.



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