

# Hanovia

# PureLine S

## Sugar Syrup Disinfection Range



### 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 end 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 to 4
Expected lamp life:	4000-8000 hours
Temperature sensor:	Yes
UV monitor:	Wet UV monitor (down to minimum T <sub>10</sub> )
Working fluid temperature:	+5°C to +75°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:	Dependant on sugar viscosity
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
Interconnecting cable lengths:	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

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### 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/cm<sup>2</sup> 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 <math><0.38\mu\text{m}</math> 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
- Stainless steel bleed valve

#### 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

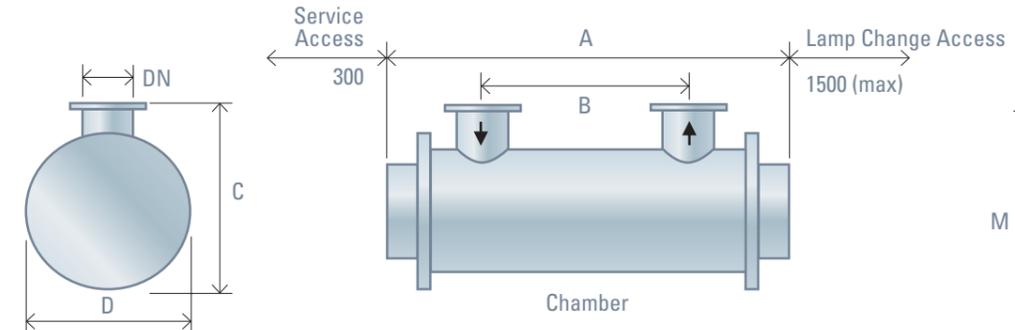
All dimensions are approximate for clearance purposes only. Hanovia has a policy of continuous product development, exact drawings are available on request. All specifications are subject to change without notification. Your Distributor or Hanovia Account Manager can advise on correct dosage and specific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

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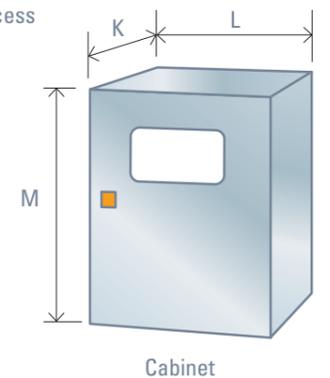


#### Dimensions (mm)

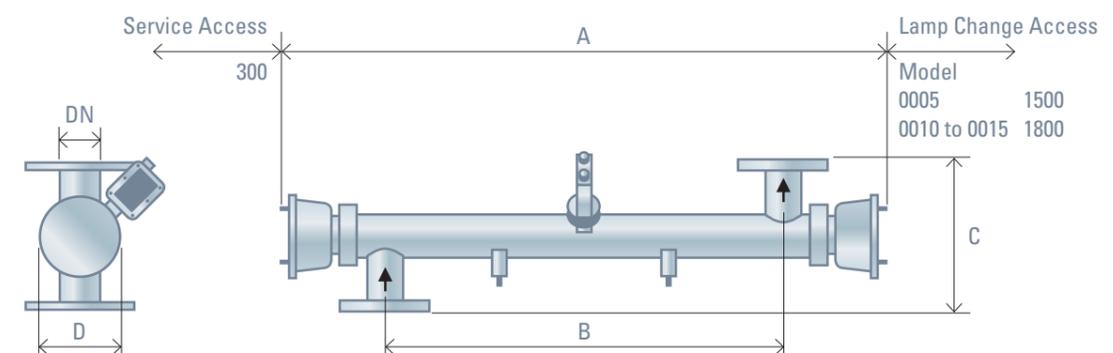
##### Chamber for model 0060:



##### Cabinet (all models):



##### Chamber for models 0005 - 0015:



Model	Maximum Treatment Capacity * (m <sup>3</sup> /hr)	Min. T <sub>10</sub> (%)	Dimensions (mm)				DN	K**	L**	M**	Approx Weight (Kg)		Power (W)
			A	B	C	D					Chamber (Empty)	Power Supply	
PureLine S 0005	5	30	955	585	188	160	40	370	750	850	20	85	2500
PureLine S 0010	10	20	1210	825	280	160	65	370	750	850	25	85	3500
PureLine S 0015	15	15	1385	100	280	160	65	370	900	1100	30	165	5500
PureLine S 0060	60	30	1090	710	319	240	100	380	1100	1590	50	290	10400

\* The maximum treatment capacity is based on a 90mJ/cm<sup>2</sup> average dose, EC number 2 sugar dissolved at 67 Brix T<sub>10</sub> 40%

\*\*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.



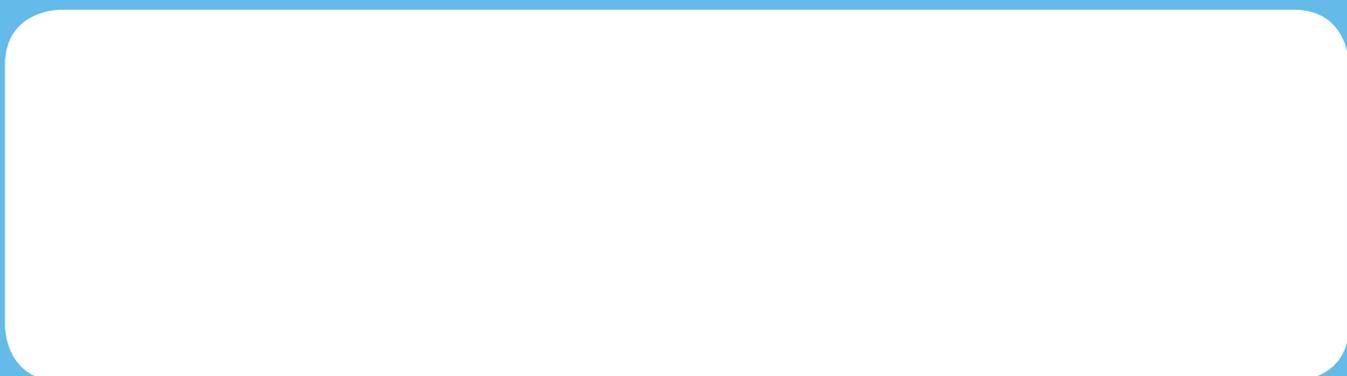
BREWING



FOOD+DAIRY



BOTTLED WATER+SOFT DRINKS



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