

With automatic cleaning—sleeves and sensors remain deposit free.



Smart controls – continuous monitoring and real-time display of DOSE.



Robust power supplies with 20 year guaranteed life – means less maintenance and O&M cost.



ENVIRONMENTALLY FRIENDLY DISINFECTION

Meeting stringent water quality standards for the industrial market!

Aquionics' new PureLine UV disinfection range is specifically designed to provide chemical-free disinfection of water, syrups, and brines, in the food, beverage, and brewing industries.

The PureLine range includes standard models for virtually any food and beverage processing application, including deozonation, de-chlorination, TOC reduction, as well as validated, performance qualified models (PQ) for the most stringent disinfection applications.

The PureLine range allows for easy installation, requiring little disruption to the plant. Maintenance is simple and can be carried out by on-site personnel. UV is a non-chemical method of treatment, so there is no possibility of a detrimental effect on product stability and products are also free from unwanted residues, colors, and odors.



Food & Beverage



Marine



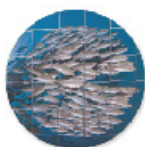
Pharmaceuticals



Electronics



Cosmetics & Toiletries



Aquaculture



Medical & Ophthalmic

DATA SHEET AND SPECIFICATIONS



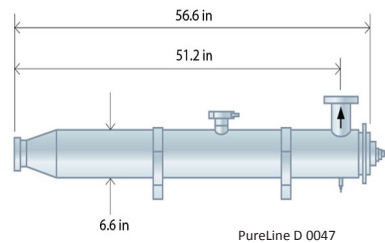
PureLine™ D

UV DISINFECTION SERIES

PURLINE DISINFECTION

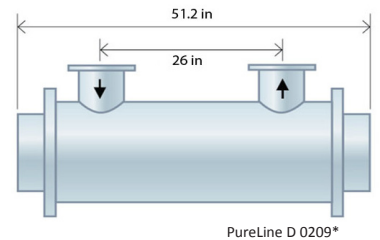
Low Pressure Systems

UV Chamber		Cabinet	
Material:	St 316L/1.4404	Material:	Polyester coated carbon steel
Internal finish:	As made pipe and tube, welds left as laid electropolished and passivated	Degree of protection:	IP65/NEMA 4 except D 0089 which is IP55 / NEMA12
External finish:	Sateen polish (120 grit) electropolished and passivated	Supply voltages:	230V (207V to 253V) or 115V (104V to 126V except D 0089) 50/60Hz
Process (mating) connections:	Flange DN series PN16 rated	Operating temperature range:	+41°F to +104°F
Drain connection:	BSPT	Relative humidity:	<90%
End plate:	Removable tri-clamp except D 0089 which is a bolted plate	Cooling fans:	On D 0089
Degree of protection:	IP65 equivalent to NEMA 4 but not suitable for outside use	Cable length:	16 ft
Arc tube (lamp):	Low pressure amalgam/high purity quartz	External contacts:	4-20mA signal for UV intensity %, Volt Free Contacts for Lamp On, Low UV warning
Arc tube enclosure:	High purity quartz	Features	
Number of lamps:	1	<ul style="list-style-type: none"> Lamp on/off Warning and trip messages Remote mode Lamp fail Door interlocked cabinet isolator Low UV % intensity 	
Expected lamp life:	12000-16000 hours	Options	
Temperature sensor	On D 0089 only	<ul style="list-style-type: none"> Validation Support Pack ANSI 150 flanges and NPT drain Stainless Steel cabinet (304) CIP maximum 266°F with cabinet electrically isolated Printed operating, menu and safety guides available in Chinese, French, and German Tri-clamp connections to BS 4825 with tri-clamp drain internal finish <0.38µm Ra maximum welds as laid electropolished and passivated Ultrasonic control 230V (207 to 263V) CE and UL approved with pre-calibrated DVGW compliant dry UV monitor 	
UV monitor	Wet UV monitor (down to minimum T ₁₀)		
Working fluid temperature:	+41°F to +104°F		
Hydrostatically pressure tested:	Yes to PED requirements EN13445		
Maximum CIP temperature:	203°F with control cabinet electrically isolated		
Operating/Design pressure:	6 bar / 7 bar		
Pressure loss:	Typically < 45 mbar including wiper		
Seals:	EPDM FDA approved		



	Model	Flow Rate (gpm)	Flange (in)	Number of Lamps	Max Power
Disinfection	PureLine D 0007	22	1.5	1	80 W
	PureLine D 0013	53	2	1	240 W
	PureLine D 0023	83	2	1	270 W
	PureLine D 0047	130	3	1	270 W
	PureLine D 0089	594	6	1	500 W
	PureLine D 0083*	401	4	1	2.5 kW
	PureLine D 0105*	478	6	1	2.5 kW
	PureLine D 0209*	968	6	1	3.5kW
	PureLine D 0300*	1443	8	1	5.5 kW
	PureLine D 0530*	2477	10	1	7.0 kW
	PureLine D 0680*	3696	12	4	14 kW
	PureLine D 0850*	3506	14	4	14 kW

The maximum disinfection capacity is based on a dose of 26mJ/cm² RED MS2 phage T₁₀ 95%



Medium Pressure Systems*

UV Chamber		Cabinet	
Material:	Stainless steel 316L	Material:	Polyester coated carbon steel
Internal finish:	As made pipe and tube, welds left as laid electropolished and passivated	Degree of protection:	IP54 equivalent to NEMA 12
External finish:	Sateen polish (120 grit) electropolished and passivated	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
Process (mating) connections:	Flange DN series PN16 rated	Operating temperature range:	+41°F to +104°F
Drain connection:	BSPT	Relative humidity:	<90%
End plate:	Removable bolted plates	Cooling fans:	Yes
Degree of protection:	IP65 equivalent to NEMA 4 but not suitable for outside use	Cable length:	32 ft
Arc tube (lamp):	Medium pressure/high purity quartz	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
Arc tube enclosure:	High purity quartz	Features	
Number of lamps:	1	<ul style="list-style-type: none"> Lamp on/off Warning and trip messages Remote mode Lamp fail Door interlocked cabinet isolator Low UV % intensity 	
Expected lamp life:	4000-8000 hours	Options	
Temperature sensor	Yes	<ul style="list-style-type: none"> Validation Support Pack Tri-clamp connections to BS 4825 with tri-clamp drain Stainless Steel cabinet (316) Lead length 98 ft or 164 ft Printed operating, menu and safety guides available in Chinese, French, and German ANSI 150 flanges and NPT drain CIP maximum 266°F with cabinet electrically isolated Chamber internal finish <0.38µm Ra maximum welds ground out electropolished and passivated 	
UV monitor	Wet UV monitor (down to minimum T ₁₀)		
Working fluid temperature:	+41°F to +104°F		
Hydrostatically pressure tested:	Yes to PED requirements EN 13445		
Maximum CIP temperature:	203°F with control cabinet electrically isolated		
Operating/Design pressure:	6 bar / 7 bar		
Pressure loss:	Typically <150 mbar		
Seals:	EPDM FDA approved		



A HALMA COMPANY



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