

# PureLine™ B

## BRINE DISINFECTION SERIES

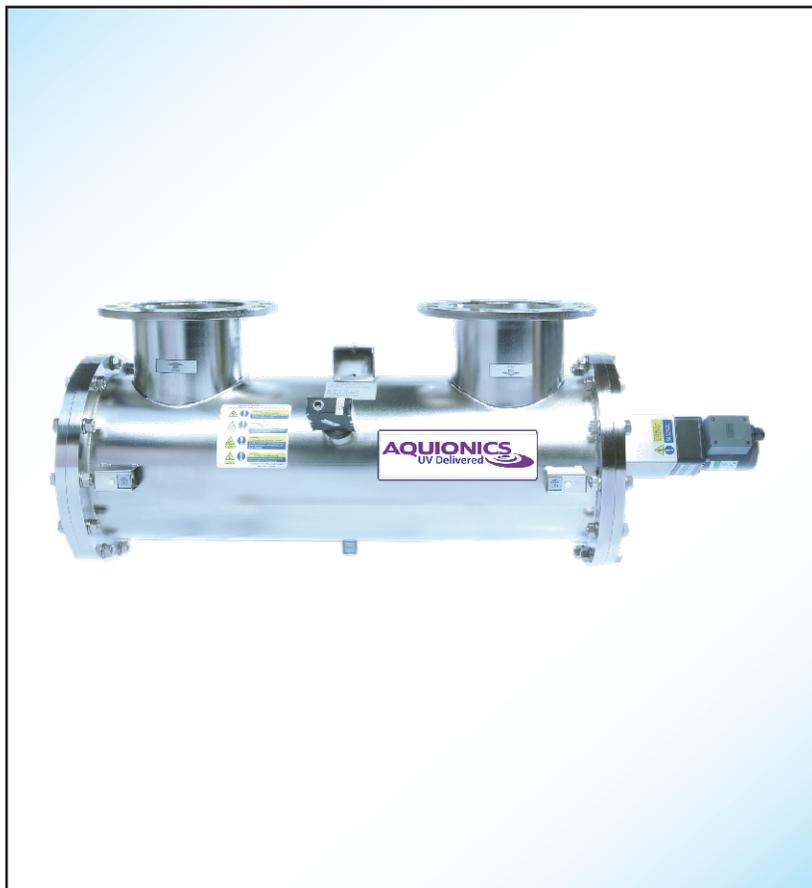
*Smart controls – continuous monitoring and DOSE display.*



*With automatic cleaning—sleeves and sensors remain deposit free.*



*Maintenance programs to ensure optimized system performance.*



PureLine B

## ENVIRONMENTALLY FRIENDLY DISINFECTION

*Meeting stringent water quality standards for the industrial market!*

Aquionics' new PureLine brine disinfection range of UV systems, eliminate water-borne pathogens that put food producers at high risk of costly and damaging product recalls.

A properly sized UV system can be guaranteed to inactivate *Listeria monocytogenes*, lactic acid bacteria, and other harmful contaminants, making UV disinfection a very important function for meat processing.

The PureLine B systems fit into existing pipework relatively easily, requiring minimum disruption and site preparation. Maintenance is simple and can be carried out by on-site personnel. Systems are available in Medium Pressure lamp technology.



Food & Beverage



Marine



Pharmaceuticals



Electronics



Cosmetics & Toiletries



Aquaculture



Medical & Ophthalmic



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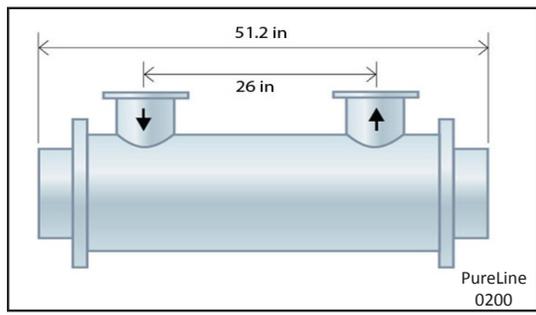
UV Chamber		Cabinet	
Material:	St 316L/1.4404	Material:	Polyester coated carbon steel
Internal finish:	As made pipe and tube, welds left as laid electropolished and passivated	Degree of protection:	IP54 equivalent to NEMA 12
External finish:	Sateen polish (120 grit) electropolished and passivated	Supply 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:	Tri-clamp connections to BS 4825	Operating temperature range:	+41°F to +104°F
Drain connection:	Tri-clamp connection to BS 4825	Relative humidity:	<90%
End plate:	Removable end plates	Cooling fans:	Yes
Degree of protection:	IP65 equivalent to NEMA4 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		
Number of lamps:	1 to 4		
Expected lamp life:	8000 hours		
Temperature sensor	Yes		
UV monitor	Wet UV monitor (down to minimum T <sub>10</sub> )		
Working fluid temperature:	+5°F to +140°F		
Hydrostatically pressure tested:	Yes to PED requirements EN13445		
Maximum CIP temperature:	203°F		
Operating/Design pressure:	6 bar / 7 bar		
Pressure loss:	Typically < 100 mbar (depends on brine concentration)		
Seals:	EPDM FDA approved		



Features	
• Lamp on/off	• UV intensity %
• Remote start/stop	• Warning and trip messages
• Horizontal mounting only	• Total hours run
• Remote mode	• Lamp fail
• Door interlocked cabinet isolator	• Low UV intensity

	Model	Flow Rate (gpm)	Flange (in)	Number of Lamps	Max Power (kW)
Brine	PureLine B 0018	79	2	1	2.5
	PureLine B 0034	150	3	1	3.5
	PureLine B 0110	484	6	4	10
	PureLine B 0200	880	6	4	14

The maximum treatment capacity is based on a dose of 32mJ/cm<sup>2</sup> RED MS2 phage T<sub>10</sub> > 80%



Options	
• Validation Support Pack	• 98 ft or 164 ft lead lengths
• Stainless Steel cabinet (304)	• CIP maximum 266°F with cabinet electrically isolated
• Printed operating, menu and safety guides available in Chinese, French, and German	• DN Flanges rated PN16 with BSPT drain
• Chamber internal finish <0.38µm Ra maximum welds ground out electropolished and passivated	• ANSI 150 flanges and NPT drain
• Stainless steel bleed valve	

A HALMA COMPANY

Celebrating 85 Years of Pure Performance from the UV Technology Pioneers

