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.

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.

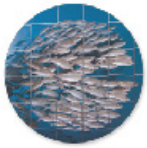
Food & Beverage

Marine

Pharmaceuticals

Electronics

Cosmetics & Toiletries



Aquaculture

Medical & Ophthalmic

AQUIONICS UV Delivered

DATA SHEET AND SPECIFICATIONS

PureLine™ B

BRINE DISINFECTION SERIES

UV Chamber	
Material:	St 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:	Tri-clamp connections to BS 4825
Drain connection:	Tri-clamp connection to BS 4825
End plate:	Removable end plates
Degree of protection:	IP65 equivalent to NEMA4 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:	8000 hours
Temperature sensor	Yes
UV monitor	Wet UV monitor (down to minimum T_{10})
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

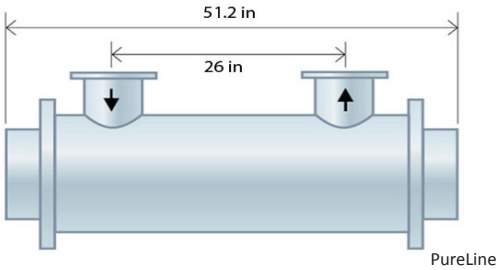
Cabinet	
Material:	Polyester coated carbon steel
Degree of protection:	IP54 equivalent to NEMA 12
Supply voltages:	Up to 2.5kW 95V to 260V (nominal) 50/60Hz 3.5 to 7.0kW 190V to 500V (nominal) 50/60Hz >7.0kW 300V to 500V (nominal) 50/60Hz
Operating temperature range:	+41°F to +104°F
Relative humidity:	<90%
Cooling fans:	Yes
Cable length:	32 ft
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

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

PureLine B

	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/cm² RED MS2 phage T_{10} > 80%



PureLine 0200

Options

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

A HALMA COMPANY

Celebrating 85 Years of Pure Performance from the UV Technology Pioneers

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AQUIONICS UV Delivered

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