

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



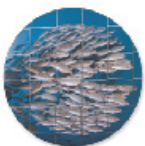
Pharmaceuticals



Electronics



Cosmetics & Toiletries



Aquaculture



Medical & Ophthalmic

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

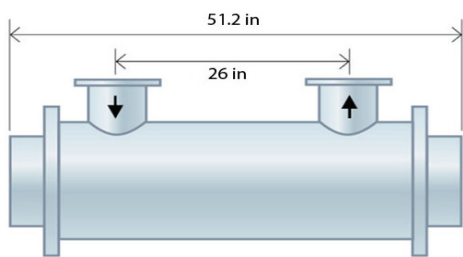
• Lamp on/off	• UV intensity %
• Remote start/stop	• Warning and trip messages
• Horizontal mounting only	• Total hours run
• Remote mode	• Lamp fail
• Door interlocked cabinet isolator	• Low UV intensity



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 T₁₀ > 80%



PureLine 0200

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



AQUIONICS

UV Delivered

