We UVCare...



# Application Optimized UV for Aquaculture

**RASLINE D PH** 



# UV treatment for aquaculture

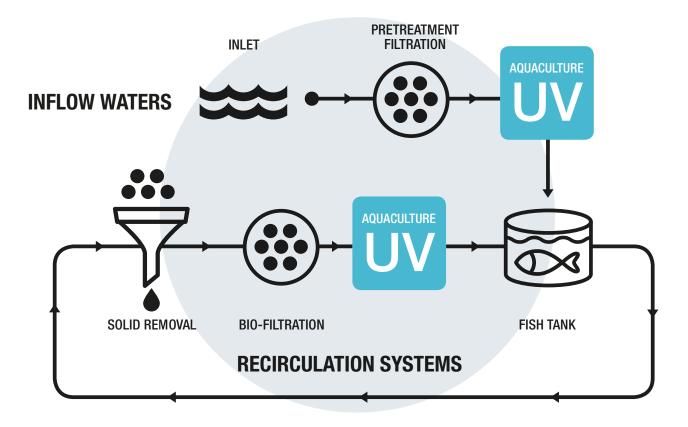
Our RASLine D PH systems are aimed specifically at providing UV disinfection for product and process waters used in the aquaculture industry. By using a UV system you will disinfect the water, eliminate harmful micro-organisms, reduce the bioburden, protect against bio-fouling and lower operating costs. Each system comes with a UV monitor to measure the germicidal output of the UV system and make it easy to monitor and log performance.





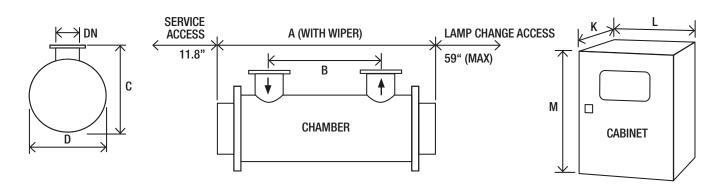


# Aquaculture inflow/recirculation process diagram



KEY FEATURES	WHAT IT GIVES YOU	BENEFITS FOR YOU			
INTELLIGENCE					
UV intensity monitor measuring germicidal wavelengths	Continuous verification of performance with inbuilt low intensity alarm	Easy to monitor and log system performance			
OPTIMIZATION					
UV water disinfection	Protect your fish, your processes and the environment from harmful contamination without	Proven performance			
	resorting to chemicals.	No chemicals			
Designed for the treatment of aquaculture water	Constructed of 316L stainless Steel wetted parts, also available in Super Duplex construction for sea water applications	Industry compliant materials			
	*Automatic wiper (quartz cleaning)	Self cleaning			
INTEGRATION					
Compact design	Can be fitted to skids	Easy integration			
	Can be retrofitted to existing process				

# \* Option



			Dimens	ions (Inc	hes)						Approx weigh	t (lb)
Model Number	Maximum Power (kW)	Min T <sub>10</sub> (%)	А	В	С	D	DN	K*	L	M**	Chamber (Empty)	Control Cabinet
RASLine D PH 0060	1.6	85	33.5	9.4	12.6	9.4	3.1	13	29.5	33.5	88.2	187.4
RASLine D PH 0080	2.7	91	51.2	28	12.5	9.4	3.1	13	29.5	33.5	110.2	187.4
RASLine D PH 0083	2.7	91	51.2	28	12.5	9.4	4	13	29.5	33.5	110.2	187.4
RASLine D PH 0095	4.4	81	51.2	28	12.5	9.4	3.1	13	29.5	33.5	110.2	187.4
RASLine D PH 0100	4.4	81	51.2	28	12.5	9.4	4	13	29.5	33.5	110.2	187.4
RASLine D PH 0209	4.4	90	51.2	26	16.5	11.4	6	13	29.5	33.5	143.3	187.4
RASLine D PH 0240	5.8	84	51.2	26	16.5	11.4	6	13	35.4	43.3	143.3	187.4
RASLine D PH 0300	5.8	93	51.2	24	19.8	16.1	8	13	35.4	43.3	308.6	363.8
RASLine D PH 0400	16.5	62	51.2	26	16.5	11.4	6	13	43.3	63	143.3	621.7
RASLine D PH 0550	16.5	62	51.2	24	19.8	16.1	8	13	43.3	63	308.6	621.7
RASLine D PH 0900***	25.2	62	51.2	21.6	19.8	16.1	8	13	35.4	43.3	308.6	363.8
								13	43.3	63		621.7
RASLine D PH 0950***	33	62	51.2	24	19.8	16.1	8	13	43.3	63	308.6	621.7
								13	43.3	63		621.7
RASLine D PH 0970***	33	76	51.2	19.6	19.8	17	11.8	13	43.3	63	352.7	621.7
								13	43.3	63		621.7

<sup>\*</sup> Allow dimension L in front of cabinet for door opening and panel access.

\*\* M dimension includes the space for the cabinet mounting brackets but you need to allow space below the cabinet for cable entry and access (minimum of 9.8").

\*\* System consists of two cabinets; separate dimensions K, L, M and weights are given for each cabinet.

\*\* All dimensions are approximate for clearance purposes only. We have a policy of continuous product development, exact drawings are available on request.

\*\* All specifications are subject to change without notification. Your distributor or our account manager can advise on correct sizing and specification requirements.

UV CHAMBER	
Material:	Stainless steel 316L / 1.4404
Internal finish:	As made pipe and tube, welds as laid, electropolished and passivated
External finish:	Sateen polish (120 grit) electropolished and passivated
Process (mating) connections:	Flange EN 1092-1 PN16
Drain connection:	BSPT
End plate:	Removable end plate
Degree of protection:	IP65 equivalent to NEMA 4 but not for outside use
Arc tube (lamp):	Medium pressure
Arc tube enclosure:	Pure quartz
Number of arc tubes (lamps):	1 (D PH 0060-0300), 4 (D PH 0400, 0550), 6 (D PH 0900), 8 (D PH 0950, 0970)
Expected lamp life:	8000 hrs, 4000 hrs D PH 0240 and 0300
Temperature sensor:	Yes
UV monitor:	Wet UV monitor (if above minimum $T_{10}$ )
Working fluid temperature:	41°F to 140°F (176°F unwiped)
Hydrostatically pressure tested:	Yes to PED requirements EN 13445
Chamber mounting:	Horizontal only
Operating pressure:	6 bar
Seals:	EPDM, ADI free, EC 1935/2004, FDA 21 CFR 177.2600 approved
OPTIONS	
Document Support Pack	
Cabinet material: Stainless stee	el 316
Operation and Maintenance man manual in Chinese, English, Frenc	ual and printed Installation and Commissioning ch, German and Spanish
Wiper: Automatic (electrically d	riven )
Flange options: ANSI 150, JIS,	Table 'E'
Lead length: 65.6 ft, 98.4 ft or	164 ft cabinet to chamber
Welder Document Pack for cha	amber construction
Bleed valve	
Skid mounting	
Operating pressure: 10 bar	
Power adjustment: 4 level pow	er switching
<u> </u>	

Vent valve: Manual valve

OPTIONS (CONTINUED)	
Cabinet IP rating: Air to air heat IP 65, NEMA 4X	exchangers, stainless steel version
Aggressive water package: For 4	100 ppm to 20000 ppm chloride water
UVShield™: Power cut-out for I	amp access (0060-0300 only)
Water leak detection: Detects w	vater leaks from quartz sleeve
Arc tube enclosure: Doped qua	rtz
CABINET	
Material:	Polyester coated carbon steel
Degree of protection:	IP54 NEMA 12
Supply voltages:	D PH 0060-0083 95 V to 260 V D PH 0095-0300 190 V to 480 V D PH 0400-0970 380 V to 480 V 50/60 Hz, (voltage tolerance ± 10% of nominal)
Operating temperature range:	41°F to 104°F
Relative humidity:	<85% non-condensing
Cooling fans:	Yes
Interconnecting cable:	32.8 ft cabinet to chamber
CUSTOMER OUTPUTS	
4-20 mA passive or active output:	UV intensity %
VFC outputs:	System warning, lamp ready, low UV intensity common trip, remote reset, ELCB or water leak, system available, local or remote mode
CUSTOMER INPUTS	
4-20 mA passive or active output:	Flow meter
VFC inputs:	Remote stop/start and remote reset
CUSTOMER COMMUNICATION	NS PORT
None	
APPROVALS	

CE marked, UL Listed E14 9108



Also available in our Aquaculture product range...



Energy Optimized general disinfection suitable for clear waters



RASLINE PO IL

3rd party NVI validated systems for critical disinfection requiring approvals and a wide range of UVT applications.







# www.weuvcare.com

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### Netherlands

t: +31 40 2907777 e: sales@bersonuv.com

# Germany

t: +49 611 44575375 e: verkauf@hanovia.com

#### **United Kingdom**

t: +44 1753 515300 e: sales@hanovia.com

#### China

t: +86 21 61679599 e: china@hanovia.com

# Malaysia

t: +60 16 440 8834 e: asia@hanovia.com

# USA

t: +1 980 256 5700 e: sales@aquionics.com

### Canada

t: +1 980.256.5700 e: sales@aquionics.com

#### Mexico

t: +1 980.256.5700 e: sales@aquionics.com

