

We UVCare...

# Application Optimised UV for Pools & Leisure



SWIMLINE PH



## UV treatment for pools and spas

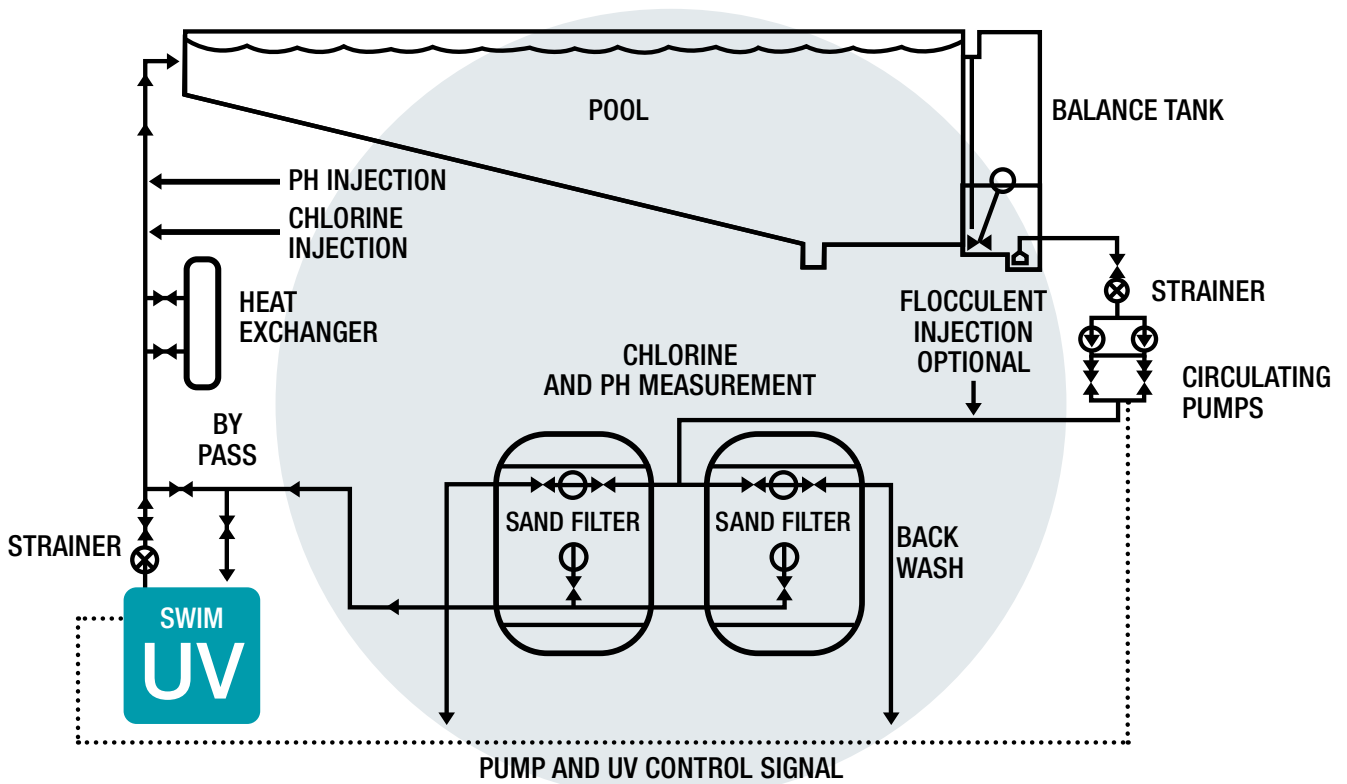
Our SwimLine PH UV systems deliver effective treatment (chloramine removal and disinfection) for all leisure facilities from spas through to large competition pools. By using medium pressure lamps we break down not only monochloramine but also di- and trichloramine which are responsible for eye and skin irritation, headaches and unpleasant odours. Using UV in the water treatment process provides bathers and staff with a pleasant and safe environment. UV has the added advantage of being effective against chlorine resistant microorganisms such as *Cryptosporidium* and is up to 5 times cheaper to maintain and occupies only 1/10th of the space of ozonation equipment.

berson

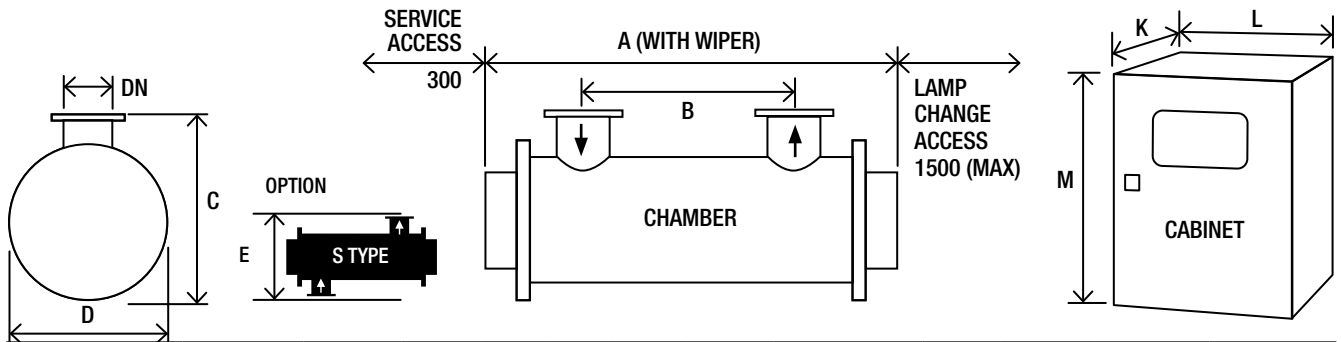
hanovia

aquionics

# SwimLine PH™ - Single Pool with UV treatment



KEY FEATURES	WHAT IT GIVES YOU	BENEFITS FOR YOU
<b>INTELLIGENCE</b>		
UV intensity monitor	Continuous verification of performance with in-built low dose alarm	Easy to monitor and log system performance
Flow meter input	Real time adjustment of lamp power based on flow	Saves power
<b>OPTIMISATION</b>		
Medium pressure lamp	Provides UV light at 200 to 400 nm wavelengths ideal for the destruction of mono-, di- and trichloramine	Visibly clear water with reduced odours
		Reduced building corrosion risk
		Minimises bathers' eye and skin irritation
	Provides germicidal wavelengths to disinfect the water	Protect bathers from chlorine resistant microorganisms such as <i>Cryptosporidium</i> or <i>Giardia</i>
	Automatic wiper (quartz cleaning)	Self cleaning
<b>INTEGRATION</b>		
Designed specifically for pools	UVShield™ power cut-out for lamp access (option)	Enhanced operator safety when changing a lamp
	Water leak detection (option)	Increased bather safety when used with a strainer



Model Number	Maximum Power (kW)	Min UVT (%)	Dimensions (mm)								Approx weight (Kg)		
			A	B	C	D	E	DN	K*	L	M**	Chamber (Empty)	Control Cabinet
SwimLine PH 60	1.6	85	850	240	320	240	400	80	330	750	850	40	85
SwimLine PH 70	1.6	85	850	240	320	240	400	100	330	750	850	45	85
SwimLine PH120	2.7	78	1300	660	320	240	400	150	330	750	850	50	85
SwimLine PH 195	4.4	81	1300	660	320	240	400	150	330	750	850	50	85
SwimLine PH 295	4.4	90	1300	610	420	290	550	200	330	750	850	75	85
SwimLine PH 470	5.8	84	1300	610	420	290	550	200	330	900	1100	75	165
SwimLine PH 600	5.8	93	1300	550	505	410	600	250	330	900	1100	120	165
SwimLine PH 705	5.8	93	1800	960	505	410	600	300	330	900	1100	160	165
SwimLine PH 850	12.5	62	1800	960	505	410	600	300	330	1100	1600	160	270
SwimLine PH 990	16.5	76	1800	930	540	430	650	350	330	1100	1600	200	282

\* 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 250 mm).

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 or NPT if ANSI flange
End plate:	Removable end plate
Degree of protection:	IP65 equivalent to NEMA 4 but not for outside use
Wiper:	Automatic (electrically driven)
Arc tube (lamp):	Medium pressure
Arc tube enclosure:	Pure quartz (F200)
Number of arc tubes (lamps):	1 (SwimLine PH 60 - 705) 3 (SwimLine PH 850) 4 (SwimLine PH 990)
Expected lamp life:	4000-8000 hours
Temperature sensor:	Yes
UV monitor:	Wet UV monitor (to minimum UVT)
Working fluid temperature:	1°C to 60°C
Strainer:	Yes
Hydrostatically pressure tested:	Yes to PED requirements EN 13445
Chamber mounting:	Horizontal only
Operating pressure:	6 bar (positive pressure only)
Pressure loss:	Typically < 70 mbar
Seals:	EPDM

#### OPTIONS

Operation and Maintenance manual and printed Installation and Commissioning manual in Chinese, English, French, German and Spanish

Flange options: ANSI 150 (with NPT drain), JIS, Table 'E'

Lead length: 20 m, 30 m or 50 m cabinet to chamber

Skid mounting (not ship board or earthquake zone)

Air vent connection: BSPT or NPT if ANSI flange

#### OPTIONS (CONTINUED)

Aggressive water package: For 400 ppm to 20000 ppm chloride water

UVShield™: Power cut-out for lamp access

Water leak detection: Detects water leaks from quartz sleeve

Chamber configuration: S shape

#### CABINET (CONTROLLER PHOTON)

Material: Polyester coated carbon steel

Degree of protection: IP54 NEMA 12

Supply voltages (nominal): PH 60-120 95 V to 260V (+/-10%)  
PH 195-705 190 V to 480 V (+/-10%)  
PH 850-990 380 V to 480 V (+/-10%)  
50/60 Hz

Operating temperature range: 5°C to 40°C

Relative humidity: <85% non-condensing

Cooling fans: Yes

Interconnecting cable: 10 m cabinet to chamber

Power adjustment: 4 level power stepping

#### CUSTOMER OUTPUTS

4-20 mA passive or active outputs: UV dose

VFC outputs: System warning, lamp ready, low UV dose, common trip, remote reset, ELCB or water leak, system available, local or remote mode

#### CUSTOMER INPUTS

4-20 mA passive or active input: Flow meter

VFC inputs: Remote stop/start and remote reset

#### CUSTOMER COMMUNICATIONS PORT

None

#### APPROVALS

CE marked, UL listed E 149108



**SWIMLINE PH**

Also available in our Pools & Leisure product range...



**SWIMLINE PQ**

3rd party validated systems for critical  
disinfection and dechloramination



**[www.weuvcare.com](http://www.weuvcare.com)**

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