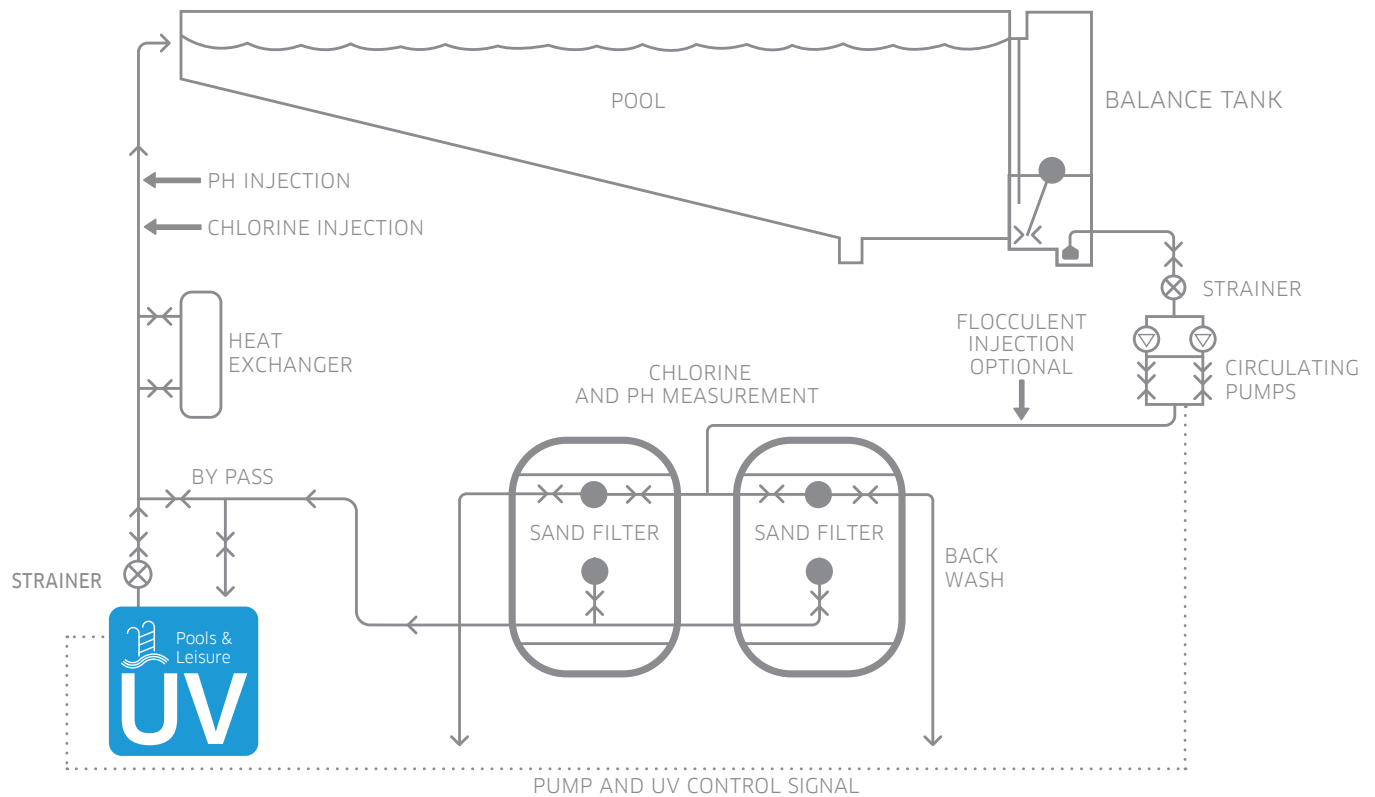# SWIMLINE PH

UV TREATMENT FOR POOLS AND SPAS

Our **SwimLine PH UV** systems deliver effective treatment (chloramine removal and inactivation) 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.
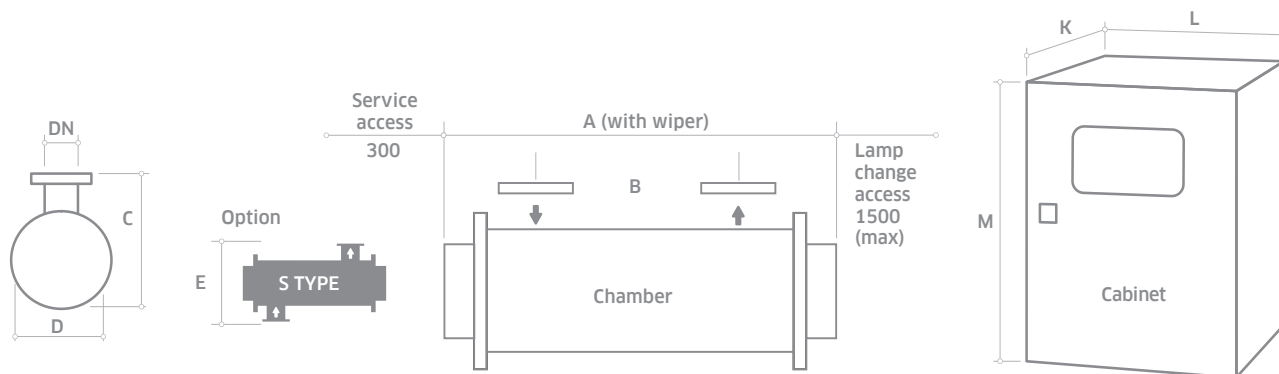
Application Optimised UV for Pools & Leisure

SWIMLINE PH™ - SINGLE POOLWITH UV TREATMENT

POOL

BALANCE TANK

PH INJECTION

CHLORINE INJECTION

HEAT
EXCHANGER

STRAINER

FLOCCULENT
INJECTION
OPTIONAL

CIRCULATING
PUMPS

CHLORINE
AND PH MEASUREMENT

BY PASS

SAND FILTER

SAND FILTER

BACK
WASH

STRAINER

Pools &
Leisure
UV

PUMP AND UV CONTROL SIGNAL

KEY FEATURES	WHAT IT GIVES YOU	BENEFITS FOR YOU
INTELLIGENCE		
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
OPTIMISATION		
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 Cryptosporidium or Giardia
	Automatic wiper (quartz cleaning)	Self cleaning
INTEGRATION		
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 (SwinLine PH 990)
Expected lamp life:	4000-8000 hours
Temperature sensor:	Yes
UV monitor:	Wet UV monitor (to minimum UVT)
Working fluid temperature:	1℃ to 60℃
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℃ to 40℃
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

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 inactivation and dechloramination

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