

## SwimLine PQ EO

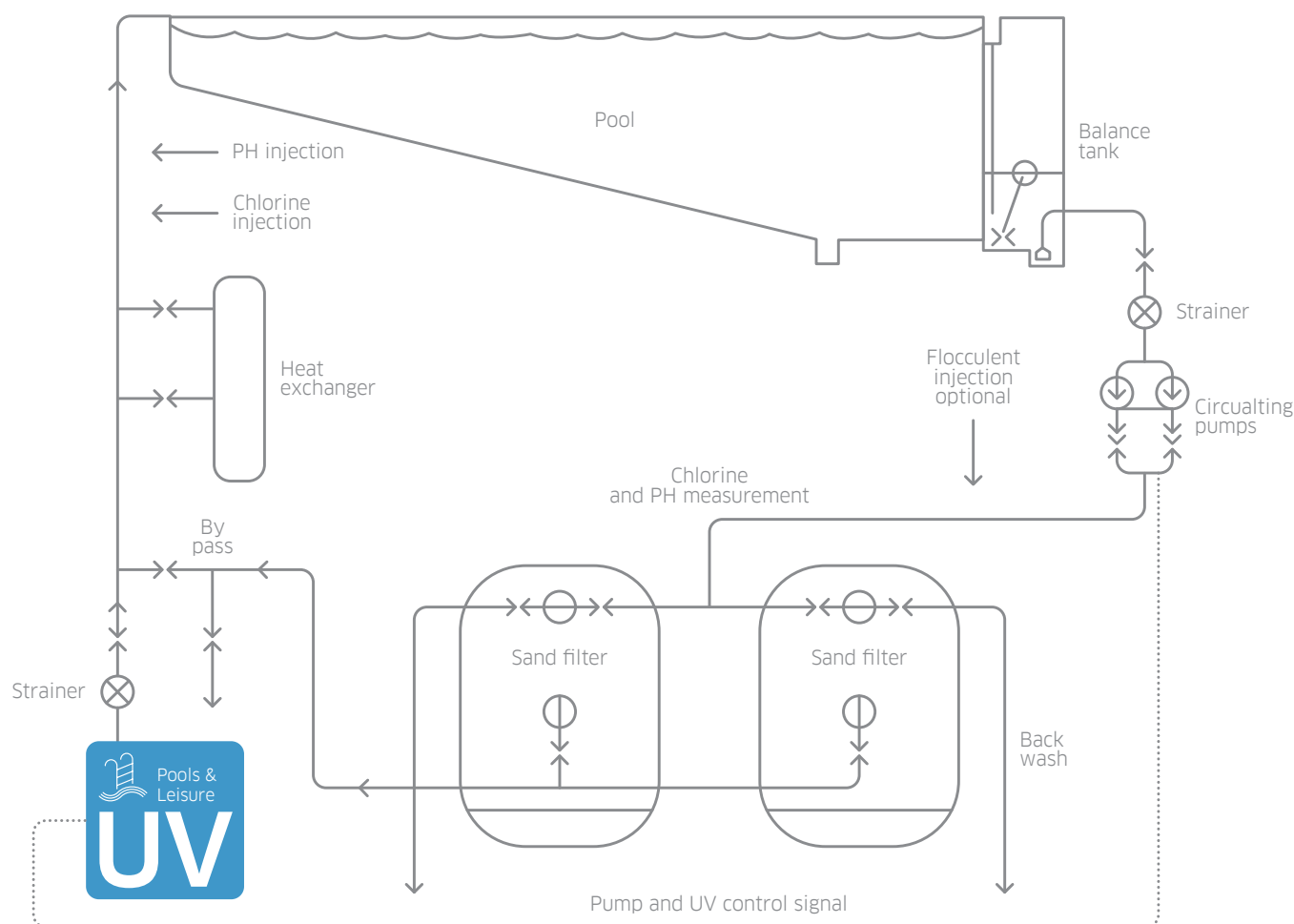
**INDEPENDENTLY  
VALIDATED AND  
OPTIMISED UV  
TREATMENT FOR  
POOLS AND SPAS**

Our SwimLine PQ EO UV systems are optimised to deliver effective treatment (chloramine removal and treatment) 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. 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. Energy optimisation and single lamp designs provide the lowest cost of ownership whilst validations provide peace of mind.

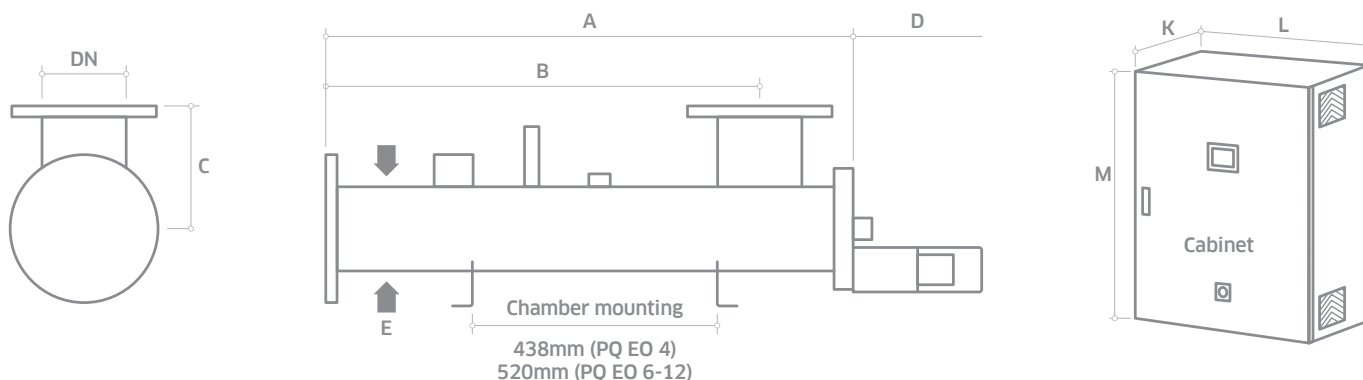


Application  
Optimised UV for  
Pools & Leisure

# SWIMLINE PQ EO™ SINGLE POOL WITH UV TREATMENT



KEY FEATURES	WHAT IT GIVES YOU	BENEFITS FOR YOU
<b>INTELLIGENCE</b>		
UV sensor	Continuous verification of performance with in-built low dose alarm	Easy to monitor and log system performance
UVGuard™ on UV sensor window	Protects against UV exposure when checking a UV duty sensor with a reference sensor while the system is operating	Ability to safely audit the UV performance without interrupting production
Flow and UV transmittance (UVT) meter inputs	Stepless adjustment of lamp power based on real time operating conditions	Optimised use of energy, saving operating costs
<b>OPTIMISATION</b>		
Single 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
	Provides germicidal wavelengths to treat the water	Minimises bathers' eye and skin irritation
Automatic wiper (quartz cleaning)	Lower maintenance cost compared to multi-lamp system	Protect bathers from chlorine resistant microorganisms such as Cryptosporidium or Giardia
	Self cleaning	Reduced operating costs
<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
	RS 485 Industrial Ethernet	Easy integration to building management systems



MODEL NUMBER	MAX POWER (KW)	MIN T10(%)	DIMENSIONS (MM)									APPROX WEIGHT (KG)		
	Starting		Chamber							Control Cabinet (fan cooled)			Chamber	
			A	B	C	D	E	DN		K*	L	M**	(Empty)	Control Cabinet Fan cooled With A/C
SwimLine PQ EO 4	4.5	80	1009/1232 with motor	823	165	900	114	100		400	800	1200	30	96
SwimLine PQ EO 6	4.5	80	1035/1286 with motor	850	245	950	168	150		400	800	1200	44	96
SwimLine PQ EO 8	4.5	80	1110 /1361 with motor	875	320	1000	210	200		400	800	1200	65	96
SwimLine PQ EO 10	4.5	80	1190/1441 with motor	903	430	1100	273	250		400	800	1200	96	96
SwimLine PQ EO 12	6.8	80	1430 /1685 with motor	1093	475	1325	324	300		400	800	1200	145	96

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.

\* 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).

UV CHAMBER	
Material:	StSt 316L / 1.4404
Internal finish:	As made pipe and tube, welds as laid, electropolished and passivated
External finish:	BS EN 10088-2 or 10088-3, 1J or 2J and ASTM No. 4
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
Wiper:	Automatic (electrically driven)
Arc tube (lamp):	Medium pressure
Arc tube enclosure:	Doped quartz (F240)
Number of arc tubes (lamps):	1
Expected lamp life:	9000 hours
Temperature sensor:	Yes
UV sensor:	Calibrated DVGW compliant dry sensor with UVGuard™ sensor window
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)
Seals:	EPDM, DVGW-W270 D1 and D2, NSF 51 and 61 approved

OPTIONS	
Operation and Maintenance manual and printed Installation and Commissioning manual in Chinese, English, French, German and Spanish	
Flange options: ANSI 150 (NPT drain), JIS and Table 'E'	
Lead length: 20 and 29 m	
Skid mounting (not ship board or earthquake zone)	
Air vent: connection capped	
UVShield™: Power cut-out for lamp access	
Water leak detection	
Aggressive water package: For 400 ppm to 20000 ppm chloride water	
UL 508A	
In field UV reference sensor kit	

CABINET (CONTROLLER UVTUUCH™)	
Material:	Polyester coated carbon steel
Degree of protection:	IP55 / NEMA 12
Supply voltages:	380 V to 480 V (-5% to +10%), 50/60 Hz
Operating temp range:	5°C to 40°C
Relative humidity:	<85% non-condensing
Cooling fans:	Yes
CABINET (GENERAL)	
Ballast power adjustment:	Stepless variable power (30 to 100% of maximum ballast rating)
Interconnecting cable:	10 m cabinet to chamber
CUSTOMER OUTPUTS	
4-20 mA passive outputs:	UV intensity, UV dose and chamber temperature
VFC outputs:	Lamp ready (enable flow), System running, Common warning, Common trip, Low UV warning, Water leak detected, System in remote
CUSTOMER INPUTS	
4-20 mA passive inputs:	Flow meter and transmittance meter
VFC inputs:	Remote stop/start, Remote reset, Reduce power
24 V dc pulsed inputs:	Start and stop
CUSTOMER COMMUNICATIONS PORT	
RS 485:	Industrial Ethernet

APPROVALS	
CE marked, USEPA (UVDGM) for Cryptosporidium reduction	



# SwimLine PQ

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



Standard treatment and  
dechloramination

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