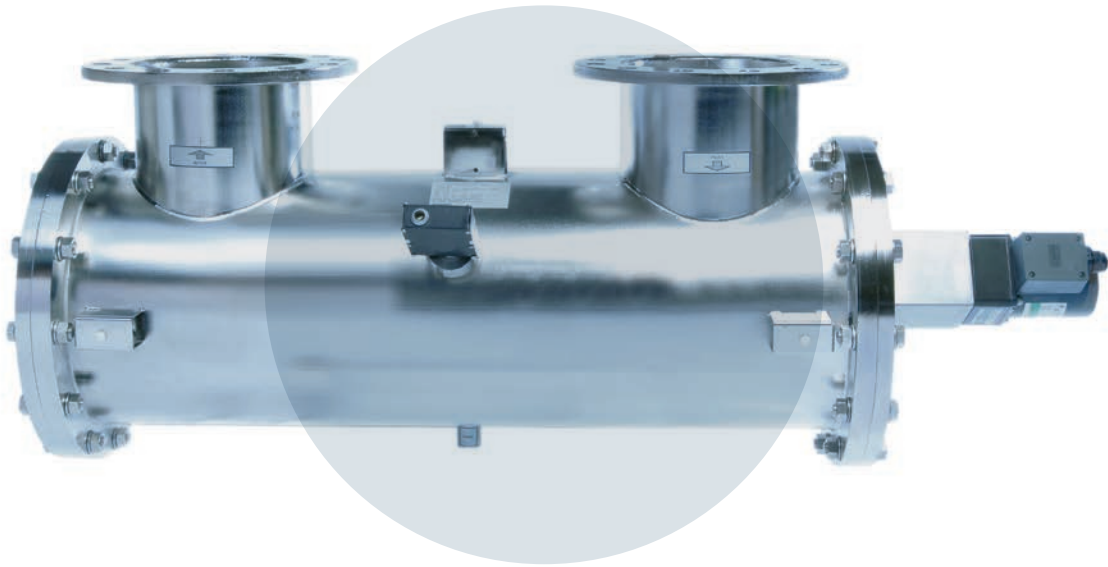


We UVCare...

Application Optimized UV for Pools & Leisure



UV SWIM U



UV treatment for pools and spas

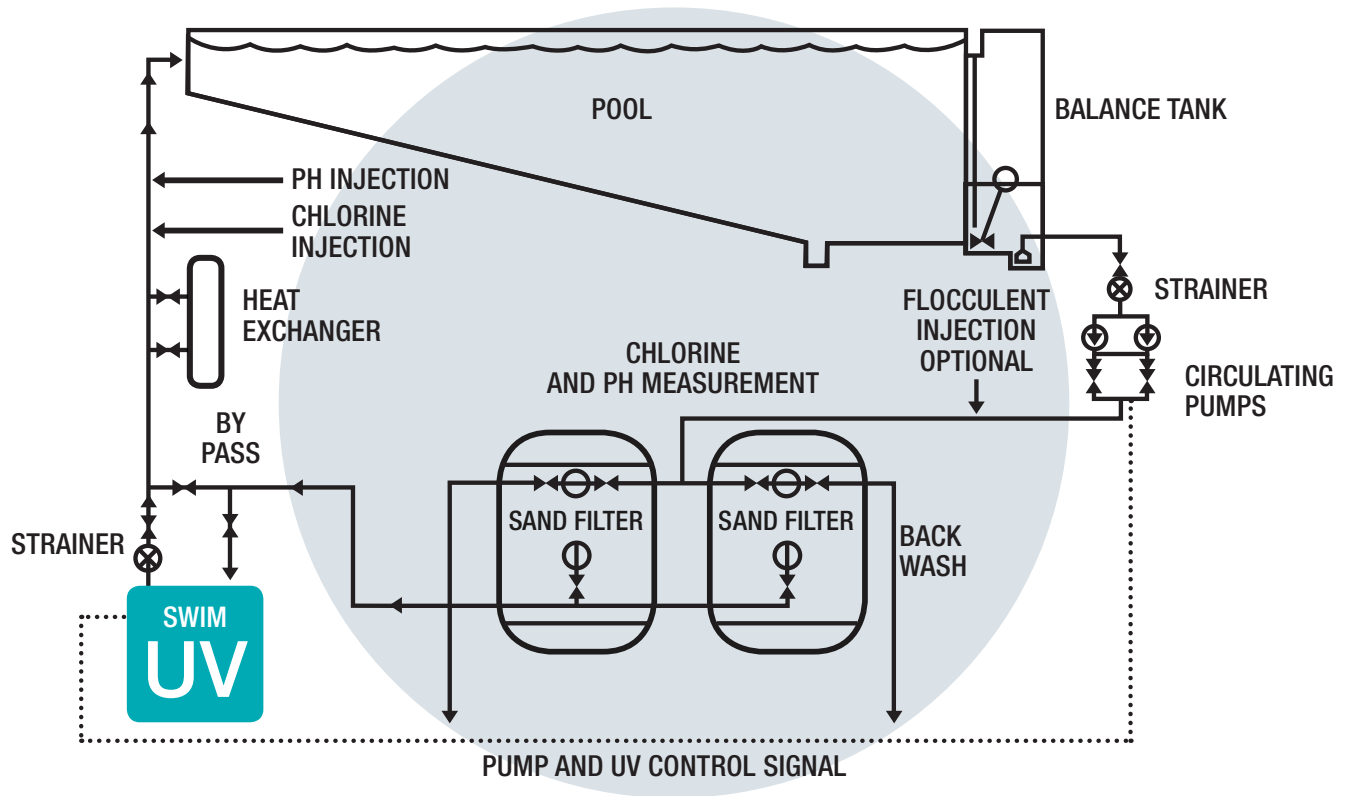
Our UV Swim I systems are NSF50 listed and deliver effective treatment (chloramine removal and disinfection) for all leisure facilities from spas through to large competition pools. By using medium pressure lamps we break down not only monochloramine but also di- and trichloramine which are responsible 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.

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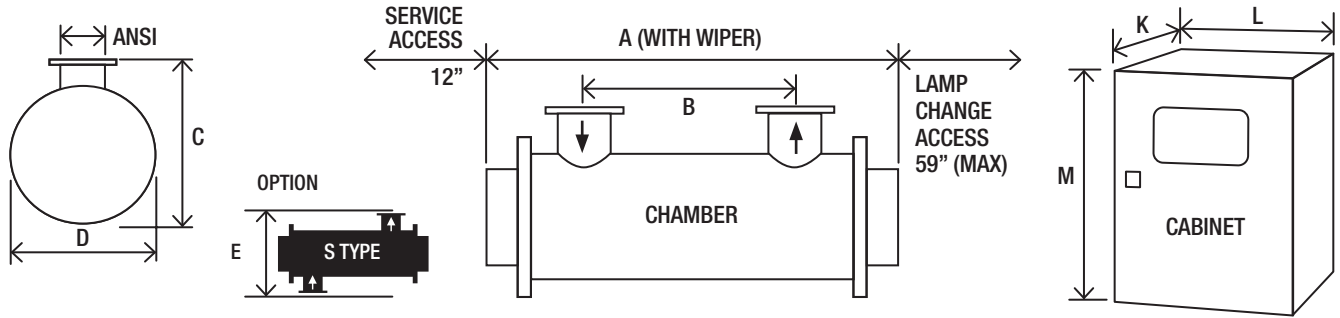
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UV Swim U - Single Pool with Ultraviolet treatment



KEY FEATURES	WHAT IT GIVES YOU	BENEFITS FOR YOU
INTELLIGENCE		
UV intensity monitor	Continuous verification of performance with in-built low intensity alarm	Easy to monitor and log system performance
Flow meter input	Real time adjustment of lamp power based on flow	Saves power
OPTIMIZATION		
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 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	
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	Max Treatment Capacity * (usgpm)	Min T ₁₀ (%)	Dimensions (Inches)									Approx weight (lb)		
			A	B	C	D	DN	K**	L**	M**	Chamber (Empty)	Power Supply	Power (kW)	
UV Swim U-152-B3	180	85	34	9.5	12.6	9.5	3	15	30	34	100	190	1.2	
UV Swim U-152-B4	213	85	34	9.5	12.6	9.5	4	15	30	34	100	190	1.2	
UV Swim U-150-C4	347	78	52	28	12.6	9.5	4	15	30	34	110	190	2.5	
UV Swim U-150-D4	352	81	52	28	12.6	9.5	4	15	30	34	110	190	3.5	
UV Swim U-150-D6	708	81	52	26	12.6	9.5	6	15	30	34	110	190	3.5	
UV Swim U-200-D6	757	90	52	26	16.5	11.5	6	15	30	34	145	190	3.5	
UV Swim U-200-D8	761	90	52	24	16.5	11.5	8	15	30	34	145	190	3.5	
UV Swim U-200-E8	1193	84	52	24	16.5	11.5	8	15	36	44	145	365	5.5	
UV Swim U-320-E8	1386	93	52	24	19.9	16.2	8	15	36	44	310	365	5.5	
UV Swim U-320-E10	1567	93	52	21.7	19.9	16.2	10	15	36	44	310	365	5.5	
UV Swim U-320-G10	2201	76	52	21.7	19.9	16.2	10	15	44	63	310	600	10.5	
UV Swim U-321-G12	3082	76	67	27.6	19.9	16.2	12	15	44	63	375	600	10.5	
UV Swim U-361-G14	3456	76	68	36.6	21.3	17	14	15	44	63	500	640	14	

* The maximum treatment capacity is based on a 60mJ/cm² average dose measured between 200 and 400nm for chloramine reduction at a transmittance T₁₀ 95% inlet velocity 10 ft / s on schedule 80 plastic pipe and except models U-321-G12 and U-361-G14 NSF / ANSI 50 annex H.1
 ** Cabinet dimensions allow for door isolator, cable entry and bracket space

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:	ANSI 150#
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)
UV Lamp:	Medium pressure
Quartz Sleeve:	Pure quartz
Number of UV Lamps:	1 to 4 dependent on model
Expected lamp life:	4000-8000 hours
Temperature sensor:	Yes
UV monitor:	Wet UV monitor (to minimum UVT)
Working fluid temperature:	41°F to 140°F (176°F unwiped)
Strainer:	Yes
Hydrostatically pressure tested:	Yes to PED requirements EN 13445
Chamber mounting:	Horizontal only
Operating pressure:	6 bar
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: EN 1092-1 PN16 (with NPT drain), JIS, Table 'E'	
Lead length: 65.6 ft, 98.4 ft or 164 ft cabinet to chamber	
Skid mounting	
Vent valve: Manual valve	

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	
Material:	Polyester coated carbon steel
Degree of protection:	IP54 NEMA 12
Supply voltages (nominal):	PH 60-120 95 V to 260V PH 195-705 190 V to 480 V PH 850-990 380 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:	33 ft cabinet to chamber
Power adjustment:	4 level power stepping
CUSTOMER OUTPUTS	
4-20 mA passive or active outputs:	UV intensity, UV dose
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 input:	Flow meter
VFC inputs:	Remote stop/start and remote reset
CUSTOMER COMMUNICATIONS PORT	
None	
APPROVALS	
UL listed E 149108, CE marked, NSF50	



UV SWIM U

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



UV SWIM I

3rd party validated systems for critical disinfection and dechloramination



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BERSON, HANOVIA & AQUIONICS WORKING TOGETHER AS PART OF THE HALMA GROUP.

Netherlands

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

China

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

USA

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

Germany

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

Malaysia

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

Canada

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

United Kingdom

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

Mexico

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



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