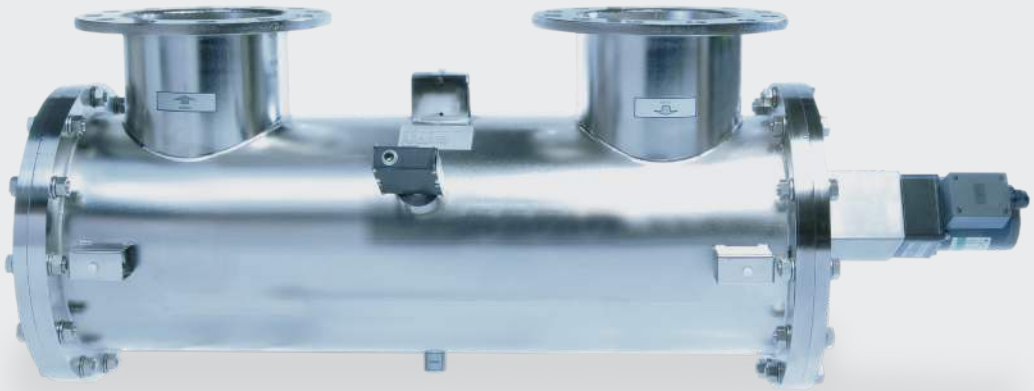
formerly Aquionics, Berson, Hanovia and Orca GmbH



UV Swim U

UV TREATMENT FOR POOLS AND SPAS

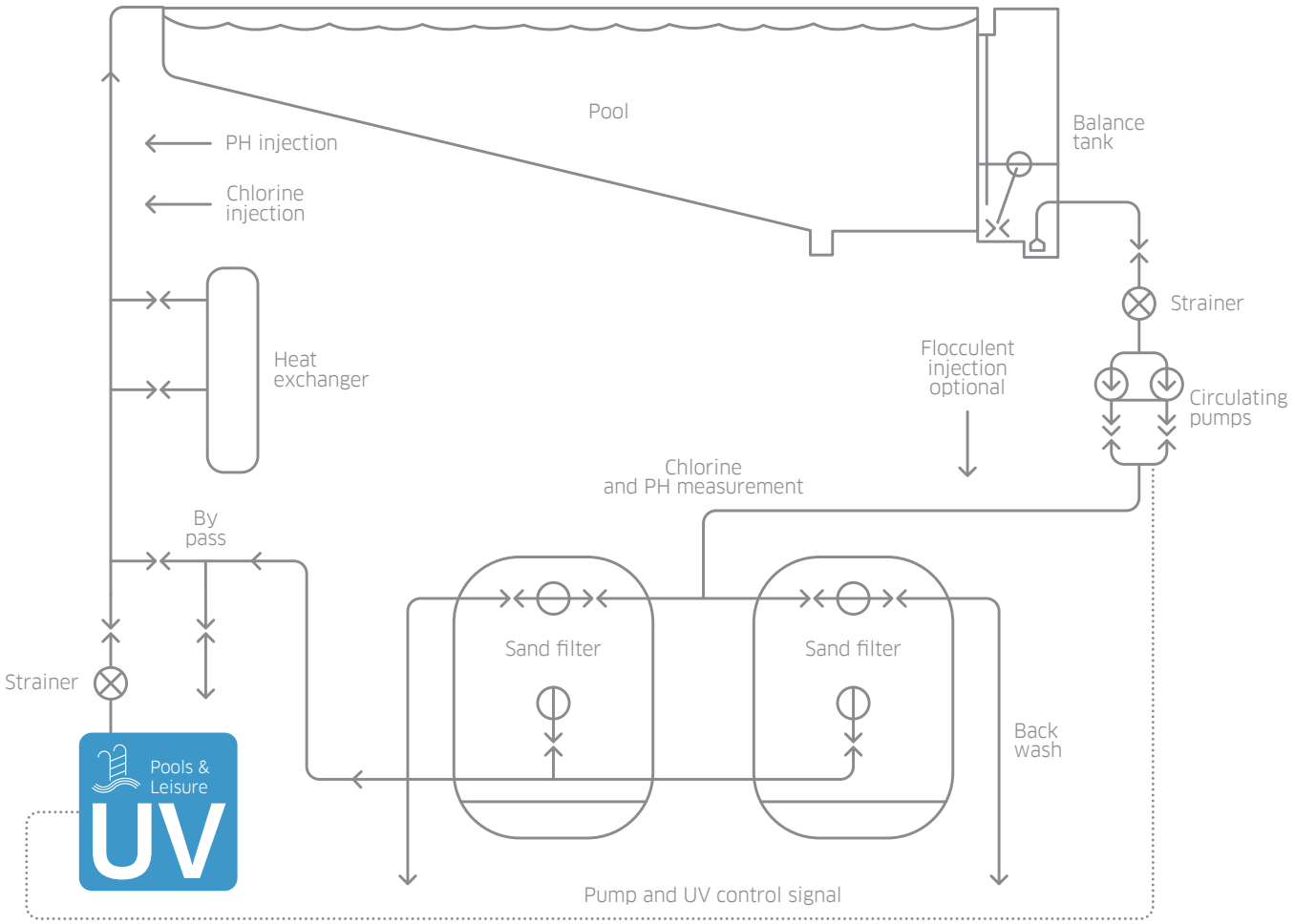
Our UV **Swim U** systems meet the requirements of NSF50 for supplemental disinfection for all leisure facilities from spas to large competition pools.

They are also designed to break down combined chlorine (chloramine) which are responsible for eye and skin irritation, headaches and unpleasant odours.

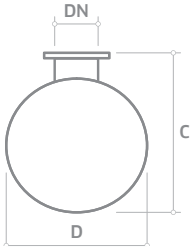
The system is also able to deactivate Pseudomonas and Enterococcus and is up to 5 times cheaper to maintain and occupies only 1/10th of the space of ozonation equipment.

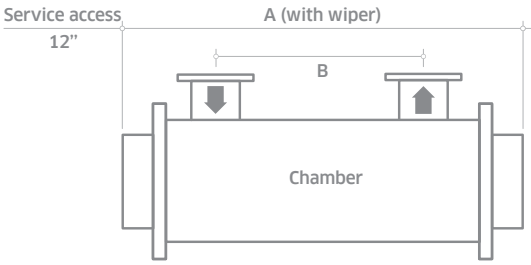
Application
Optimized UV for
Pools & Leisure

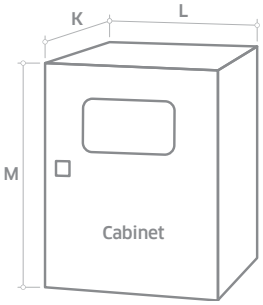
UV SWIM U - SINGLE POOL WITH ULTRAVIOLET TREATMENT



KEY FEATURES	WHAT IT GIVES YOU	BENEFITS FOR YOU
INTELLIGENCE		
UV intensity sensor	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
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 building corrosion risk
		Minimises bathers' eye and skin irritation
	Provides active wavelengths to treat the water	Protects bathers from chlorine resistant Cryptosporidium and Giardia
	Automatic wiper (quartz cleaning)	Self cleaning
INTEGRATION		
Designed specifically for pools	UV Disconnect 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







** Cabinet dimensions allow for door isolator, cable entry and bracket space.

MODEL NUMBER	MAX FLOW (GPM) NSF50	MIN UVT (%)	MAX POWER (KW)	NO OF LAMPS	APPROX DIMENSIONS (INCHES)								APPROX WEIGHT (LB)		FLA BASED ON VOLTAGE			BREAKER (A) BASED ON VOLTAGE		
					A	B	C	D	DN	K**	L**	M**	Chamber (Empty)	Power Supply	115V, 1ph	208V, 3ph	230V, 1ph	115V, 1ph	208V, 3ph	230V, 1ph
UV Swim U-152-B3	180	85	1.6	1	34	9.5	12.6	9.5	3	15	30	34	100	190	28.63	8.56	14.31	40	12	20
UV Swim U-152-B4	213	85	1.6	1	34	9.5	12.6	9.5	4	15	30	34	100	190	28.63	8.56	14.31	40	12	20
UV Swim U-150-C4	347	78	2.7	1	52	28	12.6	9.5	4	15	30	34	110	190	39.15	14.37	19.58	50	20	25
UV Swim U-150-C6	347	78	2.7	1	52	26	12.6	9.5	6	15	30	34	110	190	39.15	14.37	19.58	50	20	25
															230V, 1ph	480V, 3ph	208V, 3ph	230V, 1ph	480V, 3ph	208V, 3ph
UV Swim U-150-D4	352	81	4.4	1	52	28	12.6	9.5	4	15	30	34	110	190	26.41	16.47	23.11	35	25	30
UV Swim U-150-D6	708	81	4.4	1	52	26	12.6	9.5	6	15	30	34	110	190	26.41	16.47	23.11	35	25	30
UV Swim U-200-D6	757	90	4.4	1	52	26	16.5	11.5	6	15	30	34	145	190	26.41	16.47	23.11	35	25	30
UV Swim U-200-D8	761	90	4.4	1	52	24	16.5	11.5	8	15	30	34	145	190	26.41	16.47	23.11	35	25	30
UV Swim U-200-E6	810	84	5.8	1	52	26	16.5	11.5	6	15	36	44	145	365	34.31	23.02	30.67	50	30	40
UV Swim U-200-E8	1193	84	5.8	1	52	24	16.5	11.5	8	15	36	44	145	365	34.31	23.02	30.67	50	30	40
UV Swim U-320-E8	1386	93	5.8	1	52	24	19.9	16.2	8	15	36	44	310	365	34.31	23.02	30.67	50	30	40
UV Swim U-320-E10	1567	93	5.8	1	52	21.7	19.9	16.2		15	36	44	310	365	34.31	23.02	30.67	50	30	40
															480V, 3ph			480V, 3ph		
UV Swim U-320-G10	2201	76	10.5	3	52	21.7	19.9	16.2		15	44	63	310	600	18.85	18.85	31.76	25	25	40
*UV Swim *U-321-G12	3082	76	10.5	3	67	37.8	19.9	16.2		15	44	63	375	600	18.85	18.85	31.76	25	25	40
*UV Swim U-361-G14	3456	76	14.0	4	68	36.6	21.3	17		15	44	63	500	640	18.85	18.85	31.76	25	25	40

Disinfection efficacy for ≥ 3 log reduction of Enterococcus faecium and Pseudomonas aeruginosa, and is intended for ***supplemental disinfection***.
*NOTE: These models are UL listed and CE marked ***but not certified*** to NSF/ANSI 50.

UV CHAMBER

Material:	Stainless steel 316L / 1.4404
Internal finish:	As made pipe and tube, welds as laid, electropolished and passivated
External finish:	Satin polish (120 grit) electropolished and passivated
Process (mating) connections:	ANSI 150
Drain connection:	NPT
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 (F200)
Expected lamp life:	8,000 hours
Temperature sensor:	Yes
UV sensor:	Wet UV monitor (to minimum UVT)
Working fluid temperature:	33.8°F to 140°F (176°F unwiped)
Strainer:	Yes
Hydrostatically pressure tested:	Yes
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

Lead length: 65.6 ft, 98.4 ft or 164 ft cabinet to chamber

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

Vent valve: Manual valve

OPTIONS (CONTINUED)

Skid mounting (not shipboard or earthquake zone)

UV Disconnect: Power cut-out for lamp access

Water leak detection: Detects water leaks from quartz sleeve

CABINET (CONTROLLER PHOTON)

Material:	Polyester coated carbon steel
Degree of protection:	IP54 NEMA 12
Supply voltages (nominal):	U-152-B3 to U-150-C4: 95 V to 260 V (+/-10%) U-150-D6 to U-320-E10: 190 V to 480 V (+/-10%) U-320-G10: 380 V to 480 V (+/-10%) 50/60 Hz
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 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

UL listed E 149108, CE marked, NSF50 (Supplemental Disinfection)

UV Swim U

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

UV SWIM I

3rd party validated systems for critical treatment and dechloramination

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