



**Swimming pool Intelligent
series**



Your swimming pool should be a place for ultimate relaxation and fun. A place where visitors jump into safe and comfortable water without any worries. Our sustainable Swimming pool Intelligent series (Si) makes that possible. Our Swimming pool Intelligent systems provide microbiologically safe water and drastically reduce your bound chlorine level. This way you meet requirements for the latest regulations, offer visitors more comfort and save considerably on the use of makeup water, energy and chemicals. A future-proof solution, sustainable by nature.

Contact details

Van Remmen UV Technology
📍 Hooglandweg 3a
8131 TE Wijhe
Nederland

☎ +31 (0)570 521890
✉ info@vanremmen.nl
🌐 www.vanremmen.nl



Reference case



"Less bound chlorine, lower costs, and more comfort."

"I already saw the bound chlorine halve within a weekend."

The swimming pool De Kuilart in Koudum sought an efficient solution to reduce the bound chlorine levels and opted for the Si system from Van Remmen UV Technology. This low-pressure UV system quickly yielded noticeable results: a halving of bound chlorine, lower costs, and an improved working environment. Despite a new water treatment installation, the pool experienced difficulties in keeping the chlorine levels below the required 0.6 mg/L during busy days. With the UV system, the chlorine levels decreased rapidly, resulting in fewer flushing cycles. This led to significant savings in water, chemicals, and energy. The estimated payback period for the system is two years. In addition to meeting new standards, the UV system also provides improved air quality, benefiting both staff and visitors. The Si system from Van Remmen UV Technology has thus become a successful and valuable investment for Swimming Pool De Kuilart.



Benefits

Bound chlorine (far) under Environmental Standards



With the Swimming Pool Intelligent series, the bound chlorine in your pool water remains far below the standard required under the Environmental Standards Act. At more than 100 swimming pools in the Netherlands we achieved bound chlorine values below 0.2 mg/L, where the standard is 0.6 mg/L. This guarantees standards are met and ensures more enjoyable swimming water for visitors.

Short payback period



Our UV system achieves immediate results. You save on makeup water as you don't have to change it as often. You save energy because you don't have to heat as much. You save chemicals because you don't have to disinfect as much. The cost savings this provides ensure that the purchase of a Swimming pool Intelligent series almost always pays for itself within a few years.

Guaranteed comfort and safety



The Swimming pool Intelligent series delivers on its promise. Always. Our system has been validated for this purpose. This means that our system has been extensively tested under all kinds of conditions and removes all micro-organisms in swimming water. This assures safe and comfortable bathing water for you and your visitors.

Specifications



Type	S20i	S30i	S40i	S65i	S130i
UV Chamber					
Material	RVS 316				
In-/Outlet connections	DN65 PN10	DN80 PN10	DN80	DN125 PN10	DN150 PN10
Flange	PN10				
Pressure drop	<0.2 bar				
Max. pressure	10 bar 25°				
Other	Optional	½" drain valve and ½" venting connection			
Mounting orientation	Horizontal	Horizontal	Horizontal	Horizontal/ vertical	Horizontal
Diameter - A (mm)	129	129	129	254	304
Height - B (mm)	165	170	120	273	298
Installation dimension - C (mm)	1038	1331	1604	1321	1543
Length - D (mm)	1160	1490	1790	1541	1774
Required working space - E (mm)	2200	2900	3440	2940	3400
Weight (kg)	21	21	17	51	673

UV-C lamp

Lamptype	120W Long Life	205W Long Life	325W Long Life	120W Long Life	205W Long Life
Preferred water temp. (°C)	5 °C - 30°C				
Total UV-C output (Watt)	38	58	116	114	174
Lamp lifespan (hours)	16000				
Number of lamps	1	1	1	3	3

Control Unit

Material	Aluminium and recycled ABS			Coated steel	
Dimensions (lxbxh)	280x150x90mm			600x600x210 mm	
Control features	Lamp status, lamp hours, systeem running time, volt free alarm contacts, 4/20mA output, Remote Start/Stop				
Options	UV-C Sensor, Temperature Safety Sensor, Temperature Safety Dumpvalue, Modbus RTU, Remote monitoring				
Operating voltage	230 VAC, 50/60 Hz				
Electrical connection	6A C-char./4A D-char.			16A C-char./10A D-char.	
Protection rating	IP55			IP54 standard	
Preferred ambient temperature (°C)	5°C - 35°C				
Total Power Consumption (Watt)	140	230	365	435	690
Length lamp cable	1 meter (3 of 6 optional)			3 meter (6m optional)	

Approvals

Complies with	Low Voltage Directive (LVD) 2014/35/EU, Electromagnetic Compatibility Directive (EMC) 2014/30/EU, Machinery Directive 2014/42/EC
---------------	--

Specifications



Type	S195i	S250i	S330i	S410i
UV Chamber				
Material	RVS 316			
In-/Outlet connections	DN200 PN10	DN250 PN10	DN250 PN10	DN300 PN10
Flange	PN10			
Pressure drop	< 0,2 bar			
Max. pressure	10 bar 25°			
Other	Optional ½" drain valve and ½" venting connection			
Mounting orientation	Horizontal	Horizontal	Horizontal	Horizontal
Diameter - A (mm)	254	354	354	354
Height - B (mm)	299	352	352	352
Installation dimension - C (mm)	1568	1756	1756	1591
Length - D (mm)	1883	2056	2057	1932
Required working space - E (mm)	3600	3970	3960	3720
Weight (kg)	68.8	98.4	100.7	106.3

UV-C lamp

Lamp type	325W Long Life	325W Long Life	325W Long Life	325W Long Life
Preferred water temp. (°C)	5 °C - 30°C			
Total UV-C output (Watt)	348	348	464	580
Lamp lifespan (hours)	16000			
Number of lamps	3	3	4	5

Control Unit

Material	Coated Steel			
Dimensions (lxbxh)	600x600x210 mm			
Control features	Lamp status, lamp hours, system running time, volt free alarm contacts, 4/20mA output, Remote Start/Stop			
Options	UV-C Sensor, Temperature Safety Sensor, Temperature Safety Dumpvalue, Modbus RTU, Remote monitoring			
Operating voltage	230 VAC, 50/60 Hz			
Electrical connection	16A C-char./10A D-char.			25A C.C-char. /10A D-char
Protection rating	IP54			
Preferred ambient temperature (°C)	5°C - 35°C			
Total Power Consumption (Watt)	1085	1085	1450	1810
Length lamp cable	3 meter (6 optional)			

Approvals

Complies with	Low Voltage Directive (LVD) 2014/35/EU, Electromagnetic Compatibility Directive (EMC) 2014/30/EU, Machinery Directive 2014/42/EC			
---------------	--	--	--	--

Capacities in m³/h at a dose of 400 J/m²

Unit	T10 90%	T10 95%	T10 98%	T10 99%
<i>S20i</i>	13	16,5	18,9	19,8
<i>S30i</i>	25	36	45	48
<i>S40i</i>	45,1	55,9	65,3	69,1
<i>S65i</i>	49	64	77	87
<i>S130i</i>	93	129	159	185
<i>S195i</i>	151	197	236	267
<i>S250i</i>	178	254	324	389
<i>S330i</i>	238	336	429	513
<i>S410i</i>	292	414	529	634

Capacities - Transmittance diagram

