



UV-C; The difference is clear



MEMBER OF:  Sinvest Group BV

Passion for safe, healthy and clear water and technique, leads to our variety of filter and UV-C disinfection solutions for industrial applications.

VGE PRO
PURIFICATION EQUIPMENT

www.vgebv.nl

VGE Pro assortment

The VGE Pro assortment consists of a complete range of industrial UV-C equipment. The units provide healthy, clear and safe water. VGE Pro UV-C purifiers are the driving force in an installation; they have the ability to keep the water free of algae, bacteria and fungi. It is essential that the UV-C purifier seamlessly connects to the design and the components used in the filter installation. By choosing VGE Pro, you choose for guaranteed quality for a fair price.

Type	Article number	Reactor diameter	Reactor length	Reactor shape	Connection mm.	Connection DN	UV-C lamp power consumption
VGE Pro UV INOX 40-76	VI00400762	Ø 76mm	370 mm	L	3/4" male threaded	inapplicable	40 Watt
VGE Pro UV INOX 75-76	VI00750762	Ø 76mm	655 mm	L	3/4" male threaded	inapplicable	75 Watt
VGE Pro UV INOX 75-114	VI00751142	Ø 114mm	850 mm	U	2" male threaded	inapplicable	75 Watt
VGE Pro UV INOX 130-114	VI01301142	Ø 114mm	850 mm	U	2" male threaded	inapplicable	130 Watt
VGE Pro UV INOX 390-168	VI03901682	Ø 168mm	850 mm	U	3" male threaded	inapplicable	3 x 130 Watt
VGE Pro UV INOX 130-76	VI01300762	Ø 76mm	850 mm	U	1,5" male threaded	inapplicable	130 Watt
VGE Pro UV INOX 200-76	VI02000762	Ø 76mm	1100 mm	U	2" male threaded	inapplicable	200 Watt
VGE Pro UV INOX 200-154	VI02001542	Ø 154 mm	1100 mm	U	90 mm flange	DN80 flange	200 Watt
VGE Pro UV INOX 400-204	VI04002042	Ø 204 mm	1100 mm	U	110 mm flange	DN100 flange	2 x 200 Watt
VGE Pro UV INOX 600-219	VI06002192	Ø 219mm	1100 mm	U	140 mm flange	DN125 flange	3 x 200 Watt

- Each unit is equipped with a 316L Stainless Steel reactor.
- Each unit is equipped with a UV-C timer.
- Each unit is equipped with transparent parts to monitor the UV-C light.
- Reactor length is exclusive lamp parts or/and connections.

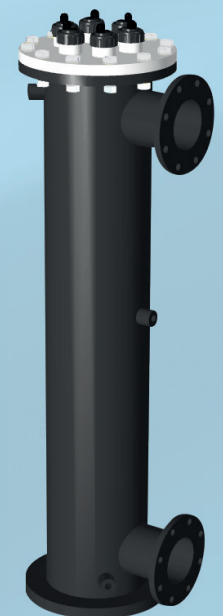
Type	Recommended flow at 30 mJ/cm ² (98% transmission)	Recommended flow at 40 mJ/cm ² (98% transmission)	Recommended flow at 60 mJ/cm ² (98% transmission)
VGE Pro UV INOX 40-76	2 m ³ /h	1,3 m ³ /h	0,85 m ³ /h
VGE Pro UV INOX 75-76	4,3 m ³ /h	3,3 m ³ /h	2,1 m ³ /h
VGE Pro UV INOX 75-114	7 m ³ /h	5,1 m ³ /h	3,5 m ³ /h
VGE Pro UV INOX 130-114	12 m ³ /h	8,5 m ³ /h	6 m ³ /h
VGE Pro UV INOX 390-168	33 m ³ /h*	33 m ³ /h *	26 m ³ /h
VGE Pro UV INOX 130-76	6,5 m ³ /h	5,0 m ³ /h	3,3 m ³ /h
VGE Pro UV INOX 200-76	9,6 m ³ /h	7,1 m ³ /h	5 m ³ /h
VGE Pro UV INOX 200-154	24 m ³ /h	18 m ³ /h	12 m ³ /h
VGE Pro UV INOX 400-204	50 m ³ /h **	49 m ³ /h	33 m ³ /h
VGE Pro UV INOX 600-219	104 m ³ /h	77 m ³ /h	52 m ³ /h



- * Maximum flow 33 m³/h (33 m³/h = 48 mJ/cm²)
- ** Maximum flow 50 m³/h (50 m³/h = 39 mJ/cm²)

Type	Article number	Reactor diameter	Reactor length	Reactor shape	Connection mm.	Connection DN	UV-C lamp power consumption
VGE Pro UV HDPE 975	XP0733252	Ø 315 mm	1630 mm	U	160 mm flange	DN150 flange	3 x 325 Watt
VGE Pro UV HDPE 1950	XP0763252	Ø 315 mm	1630 mm	U	225 mm flange	DN200 flange	6 x 325 Watt

Type	Recommended flow at 30 mJ/cm ² (98% transmission)	Recommended flow at 60 mJ/cm ² (98% transmission)
VGE Pro UV HDPE 975	150 M3/h	115 M3/h
VGE Pro UV HDPE 1950	250 M3/h	210 M3/h



Smart Pin Technology

The VGE Pro UV-C Purifiers are equipped with the unique Smart Pin Technology (SPT).

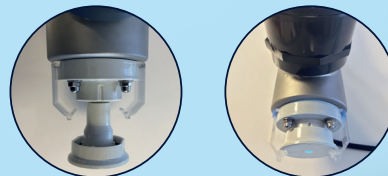
This innovative system is a reliable way to integrate the UV-C lamp(s) in a safe, efficient and smart way in a reactor.

The SPT makes it possible to replace the lamp safely, although the system remains filled with water. If the lamp is mistakenly not turned off during the replacement, it will switch off automatically as soon as it is removed from the socket. Due to the seal between the lamp socket and lamp, the system can be used in situations where IPx4 is required. The high-quality ceramic is an excellent electrical insulator and is resistant to corrosion. A visual observation of the operation of the lamp is no problem through various transparent parts.

Benefits:




- Prevents the release of harmful UV-C radiation
- Changing the UV-C lamp with water in the system
- Resistant to corrosion
- Splash proof
- Visual inspection for operation of the lamp
- Clamping system for optimal seal function
- Lamp replacement without tools

Smart Pin Technology



VGE Pro UV-C control units

Each VGE Pro UV-C purifier is equipped with a control cabinet. The following overview provides the advantages per control unit for a VGE Pro UV-C purifier.

	VGE Pro Control Timer	VGE Pro Control Monitor	VGE Pro Control Monitor Plus
			
Applicable for the following units	VGE PRO INOX 40-76 / VGE PRO INOX 75-76 VGE PRO INOX 75-114 / VGE PRO INOX 130-114 VGE PRO INOX 390-168	VGE PRO INOX 40-76 / VGE PRO INOX 75-76 VGE PRO INOX 75-114 / VGE PRO INOX 130-114 VGE PRO INOX 390-168 / VGE PRO INOX 130-76 VGE PRO INOX 200-76 / VGE PRO INOX 200-154	VGE PRO INOX 130-76 / VGE PRO INOX 130-114 VGE PRO INOX 200-76 / VGE PRO INOX 390-168 VGE PRO INOX 200-154 / VGE PRO INOX 400-204 VGE PRO INOX 600-219
Electronic ballast	✓	✓	✓
Microprocessor controlled functions		✓	✓
UV-monitoring by sensor		✓	✓
Lamp hour counter	✓	✓	✓
Switch-on cycle counter		✓	✓
Interlock input for external flow switch		✓	✓
LCD Display and buttons mounted in the front	✓	✓	✓
Main switch		✓	✓
Multi colour display		✓	✓
Steel powdercoated cabinet			✓



UV-C; The difference is clear

Combining our passion for technology and knowledge of water

Clean and safe water is of vital importance. That's why sustainable developments in the field of water disinfection are an important topic worldwide. As a manufacturer of UV-C equipment and filters, VGE International B.V. is well aware of this. We are therefore focused on new, sustainable developments, solutions and technologies in the field of water disinfection for the private, recreational and industrial sectors. We do this by combining our passion for technology and our knowledge of water, resulting in top-quality products and innovations in the field of UV-C disinfection and water filtration.

UV-C Treatment

UV light is split into four main categories, UV-A, UV-B, UV-C and Vacuum UV. The UV-C spectrum (200 to 280 nanometers) is the most lethal range of wavelengths for microorganisms. UV-C light has the ability to cause permanent damage to a wide variety of nuisance micro-organisms in water.

Each type of microorganism requires a specific UV-C radiation exposure rate to successfully complete the disinfection process. The targeted microorganism must be directly exposed to the UV-C radiation long enough for the radiation to penetrate the microorganism's cell wall. However, it takes only seconds for UV-C light rays to inactivate waterborne microorganisms by breaking through the microorganism's cell wall and disrupting their DNA. This often totally destroys the organism, or at the very least will impair its ability to reproduce.

Partnerships

VGE International cooperates closely with several partners. New insights of our partners are important in our product development. VGE provides in particular UV-C lamps and units to Original Equipment Manufacturers (OEMs). These companies process the high-quality UV-C lamps from for example Philips and Lighttech in their final industrial product. With thirty years of experience, VGE can provide these companies of adequate advice, for the development as well the production of various products. Some of our partners are Lighttech, Philips, Technical University Eindhoven and the International Ultraviolet Association.



TU/e



LightTech



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