



VGE Pro Catalogue 2018



MEMBER OF:  Sinvest Group BV



Company Introduction

VGE INTERNATIONAL B.V.

VGE International B.V. is a prominent company focused on improving people's lives through timely innovations. As a manufacturer we provide high-quality UV-C equipment for the private, recreational and industrial sectors.

As a manufacturer of a unique range of UV-C purifiers, we provide high-quality products and harmonious collaboration with customers from our premises at the Ekkersrijt industrial area in Son, the Netherlands. We're proud to be a part of Holland's top technology region, the Brainport Region. We regularly introduce new products and we continuously improve our existing products.

Environmental friendliness and saving energy are major points of interest at VGE International B.V. Years of experience (since 1982) have resulted in technically advanced products that are in use in more than 70 countries around the globe.



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“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 professional UV-C equipment 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. We do this by combining our passion for technology and our knowledge of water, resulting in top-quality products and innovations.

VGE Pro: Professional water purification systems

The VGE Pro assortment consists of a complete range of industrial UV-C purifiers. The units provide healthy, clear and safe water. VGE Pro UV-C purifiers are the driving force in a filter 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.

- VGE Pro UV-C units are equipped with a 316L Stainless Steel reactor or a high quality HDPE reactor.
- Allows lamp maintenance under working pressure.
- Each unit is equipped with transparent parts to monitor the UV-C light.
- VGE Pro units can be combined with UV-C sensor.
- VGE Pro units are equipped with the unique Smart Pin Technology (SPT) (patented technology).
- Low pressure amalgam lamps for high performance levels irrespective of the temperature of the water.
- Extreme high quality lamps with a lifetime of 16.000 hours!
- For flows from 0,5 m³/h up to 250 m³/h.
- Customization of the device to your own specifications possible.

Markets and applications



Pool and spa



Ponds / Natural pools



Aquaculture



Agriculture



Drinking water



Food and process
industry

UV-C Benefits

What are the main advantages of UV-C? And what comments should be taken in consideration?



UV-C is effective against all micro-organisms

1. Effective against all micro-organisms

Water is being exposed to bacteria, viruses, cysts and organic pollutants every day. UV-C, effectively eliminates micro-organisms. UV-C at the right strength and wavelength eliminates all micro-organisms, even the ones that are not affected by other disinfectants.



Crystal clear water

2. Crystal clear water

There is a very important culprit of cloudy water that can be eliminated by UV-C equipment: micro-organisms (such as algae). UV-C lamps destroy all micro-organisms. This benefit makes sure that UV-C equipment helps users destroy the root of many problems in water with crystal clear disinfected water as a result.



Less use of chemicals for water treatment

3. Less use of chemicals for water treatment

It is known that chemicals kill micro-organisms in water very effectively. UV-C purification makes sure there is more stability, therefore creating an environment where the use of chemicals can be minimized.



Lower costs in chemicals, and maintenance

4. Lower costs in chemicals and maintenance

Materials surrounding the water suffer from chemicals added to the water. The maintenance of these materials often costs a lot of time and money. Because UV-C radiation destroys the harmful micro-organisms in the water, the materials surrounding the water get affected much less. So maintenance costs will be brought down significantly. This makes UV-C Systems a durable product that will therefore save the customer money in the long run.



No risk of overdosing

5. No risk of overdosing

Overdosing chemicals in water can cause serious health problems and even foamy or cloudy water. UV-C radiation cannot be overdosed and destroys the harmful micro-organisms.



UV-C is a non-hazardous, green technology

6. UV-C is a non-hazardous, green technology

UV-C radiation is an environmentally friendly way to sanitize water. By destroying micro-organisms, many common water troubles belong to the past, with crystal clear water and carefree maintenance as a result.

UV-C Treatment

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.

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.



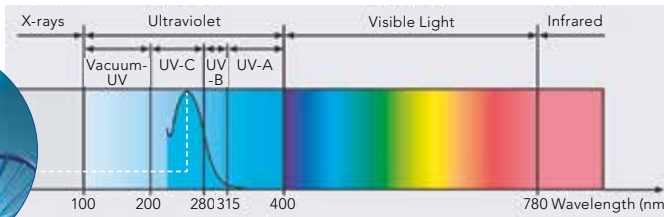
VIRUSES



MOULDS



BACTERIA



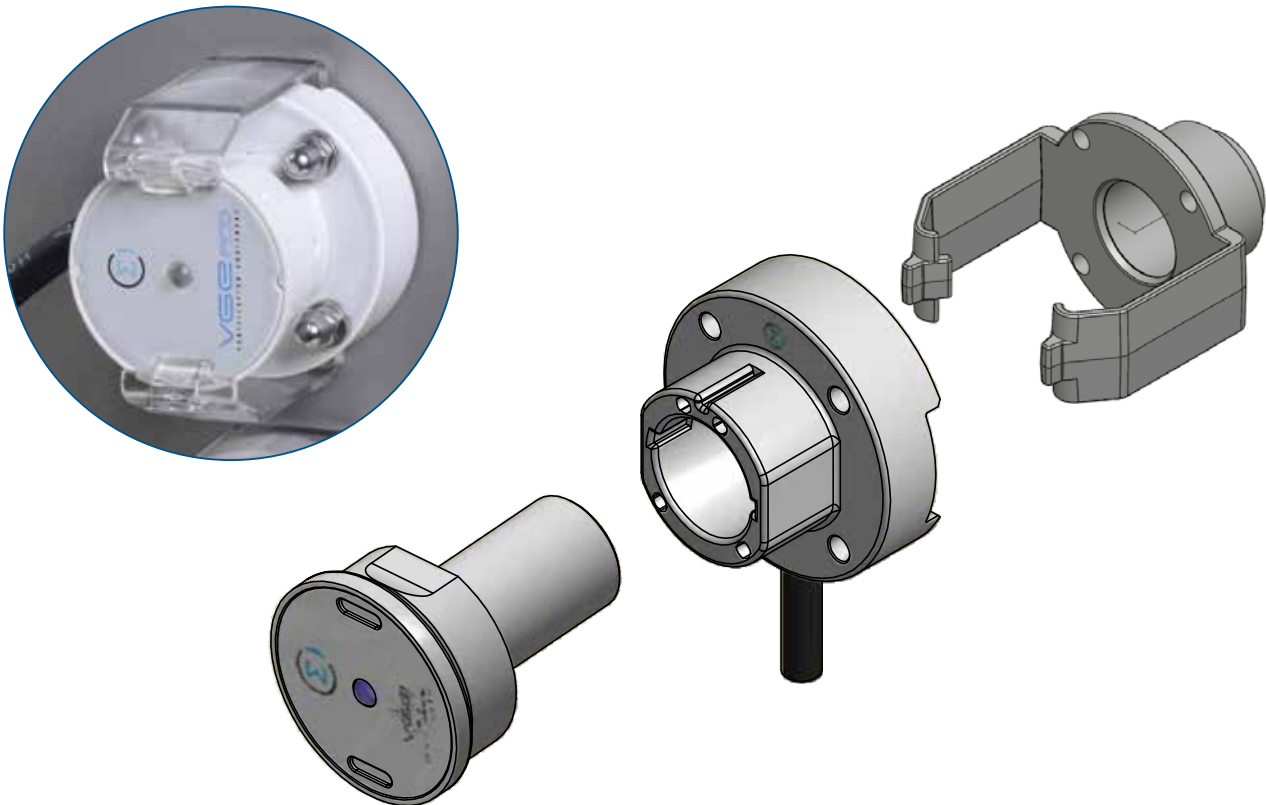


Smart Pin Technology

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



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 UV-C Control Units

Each VGE Pro UV-C purifier is equipped with a control cabinet. There are four options which can be combined with a suitable VGE Pro unit and several other options like a UV-C sensor.

VGE Pro UV Basic

Power supply for the VGE Pro series.

VGE Pro UV Control Timer





Polycarbonate box with ballast inside. LCD Display indicating remaining lamp lifetime.

VGE Pro UV Control Monitor

Polycarbonate monitor including ballast, multicolor display and several options for programming and alarms.

VGE Pro UV Control Monitor Plus

Steel powder coated cabinet Monitor including ballast, multicolor display and several option for programming and alarms.

	VGE Pro UV Basic	VGE Pro UV Control Timer	VGE Pro UV Control Monitor	VGE Pro UV Control Monitor Plus
				
Suitable for the following units, we refer you to chapter 'Overview units and options'. You will find this at page 40	See page 40	See page 40	See page 40	See page 40
Electronic ballast	✓	✓	✓	✓
Microprocessor controlled functions	-	-	✓	✓
UV-monitoring by sensor	-	-	✓	✓
Temperature monitoring by sensor	-	-	-	✓
Temperature monitoring on base board	-	-	-	✓
Lamp hour counter	-	✓	✓	✓
Actual lamp current and lamp power	-	-	-	✓
Switch-on cycle counter	-	-	✓	✓
Interlock input for external flow switch	-	-	✓	✓
Inrush current limitation	-	-	-	✓
LCD Display and buttons mounted in the front	-	✓	✓	✓
Main switch	-	-	✓	✓
Multi-colour display	-	-	✓	✓
Polycarbonate cabinet	-	-	✓	-
ABS cabinet	✓	✓	-	-
Steel powder coated cabinet	-	-	-	✓
Alarm functions UV, temperature, failed lamps	-	-	✓	✓
Stop if error and alarm function	-	-	-	✓
Remote switch, interlock and main switch	-	-	-	✓
Multiple languages	-	-	✓	✓
Relay contacts	-	-	✓	✓
4-20mA signal input/output	-	-	✓	✓
Lamp/ballast safety mechanisms	-	-	-	✓
Dimension control unit	380 x 190 x 130 mm 378 x 278 x 180 mm 560 x 380 x 180 mm	350 x 100 x 180 mm	300 x 320 x 110 mm	450 x 300 x 210 mm 400 x 300 x 150 mm

Overview complete VGE Pro Inox UV-C system



VGE Pro UV-C control units

Each VGE Pro UV-C purifier is equipped with a control cabinet. There are several options which can be combined with a suitable VGE Pro unit and several other options like a temperature sensor and a flow switch.

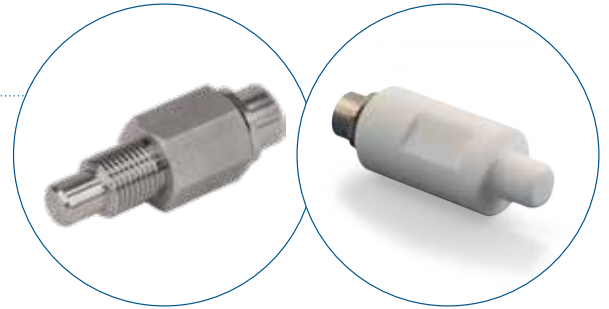


Smart Pin Technology

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.

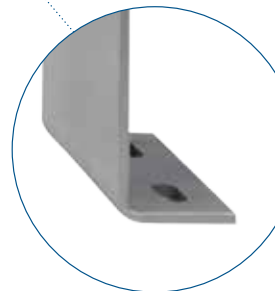
UV-C & Temperature sensor

VGE Pro UV-C units can be equipped with a UV-C & Temperature sensor. These digital sensors can be delivered in teflon or stainless steel. The VGE Pro control monitors are designed to work with these UV-C & Temperature sensors.



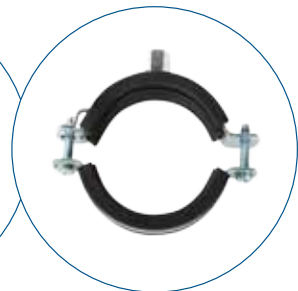
Reactors

The high quality 316L stainless steel reactor of the VGE Pro INOX series have been designed to perform. After the high quality welding process the units are leak tested. After this process they get a pickling and passivation treatment which drastically improves the corrosion resistance and lifetime of the unit. Another last treatment with glass pearls (shot peening) gives the units a nice, matt grey surface.



Supports

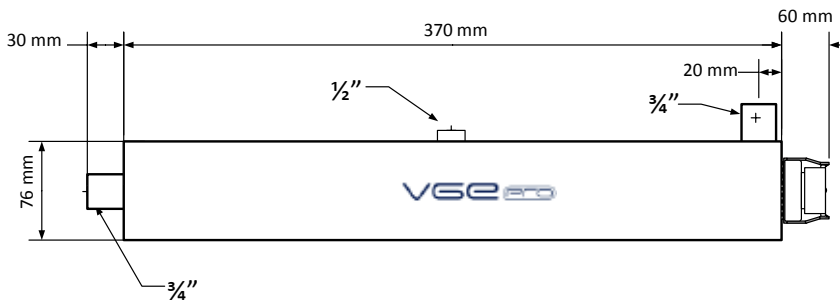
The high quality reactors of VGE Pro series can be equipped with different kind of supports.



VGE Pro UV INOX 40-76



Compact UV-C Water Disinfection System. Safe and continuous water disinfection without use of chemicals. Flow rate up to 2 m³/h. Suitable for providing tap water without bacteria. In combination with Basic, Control Timer or Control Monitor. UV-C sensor optional. Easy installing and maintenance. Lamp replacement without tools.



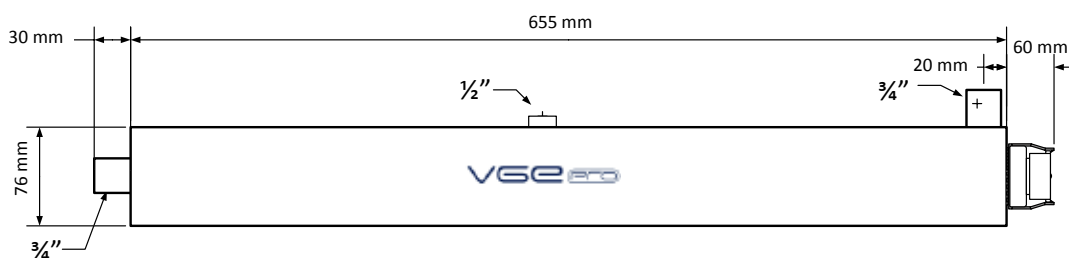
TECHNICAL SPECIFICATIONS

Article code	VI00400762	Lamp	VGE Pro T5 40W 389 SPT AM
Barcode	8714404045292	Lamp lifetime	16.000 hours
Material	Inox 316L	Recommended flow at 30 mJ/cm ² (98% transmission)	2 m ³ /h
Reactor diameter	Ø 76 mm	Recommended flow at 40 mJ/cm ² (98% transmission)	1,3 m ³ /h
Reactor length	370 mm	Recommended flow at 60 mJ/cm ² (98% transmission)	0,85 m ³ /h
Reactor shape	L	Max. pressure	6 bar (87 psi)
Connection mm	3/4" male threaded BSP	Max flow	2 m ³ /h
Connection DN	n/a	Weight	3,5 kg
UV-C lamp power	40 Watt	Package dimensions	49x23x26 cm
Article code lamp	F980107	Pipe clamp (optional)	2x B299500

VGE Pro UV INOX 75-76



Compact UV-C Water Disinfection System. Safe and continuous water disinfection without use of chemicals. Flow rate up to 4,3 m³/h. Suitable for providing tap water without bacteria. In combination with Basic, Control Timer or Control Monitor. UV-C sensor optional. Easy installing and maintenance. Lamp replacement without tools.



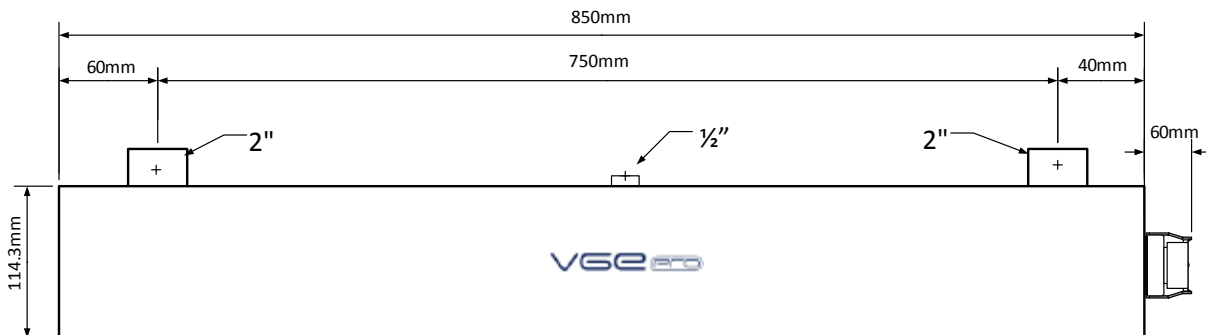
TECHNICAL SPECIFICATIONS

Article code	VI00750762	Lamp	VGE Pro T5 75W 680 SPT AM
Barcode	8714404045223	Lamp lifetime	16.000 hours
Material	Inox 316L	Recommended flow at 30 mJ/cm ² (98% transmission)	4,3 m ³ /h
Reactor diameter	Ø 76 mm	Recommended flow at 40 mJ/cm ² (98% transmission)	3,3 m ³ /h
Reactor length	655 mm	Recommended flow at 60 mJ/cm ² (98% transmission)	2,1 m ³ /h
Reactor shape	L	Max. pressure	6 bar (87 psi)
Connection mm	3/4" male threaded BSP	Max flow	4,3 m ³ /h
Connection DN	n/a	Weight	5,1 kg
UV-C lamp power	75 Watt	Package dimensions	79x22x21 cm
Article code lamp	F980109	Pipe clamp (optional)	2x B299500

VGE Pro UV INOX 75-114



Ideal unit **for big private facilities or light commercial applications** such as offices, small hotels, daycare centers and other facilities that need safe water. Safe and continuous water disinfection without use of chemicals. Flow rate up to 12 m³/h. Suitable for providing tap water without bacteria. In combination with Basic, Control Timer or Control Monitor. UV-C sensor optional. Easy installing and maintenance. Lamp replacement without tools.



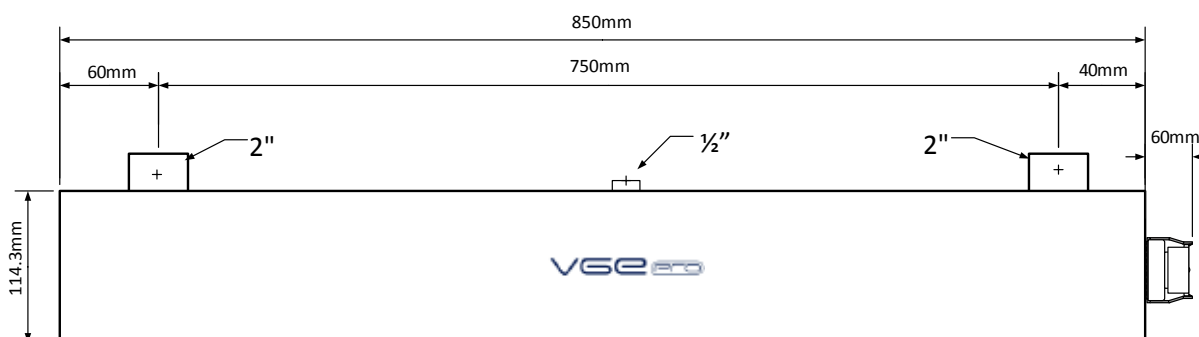
TECHNICAL SPECIFICATIONS

Article code	VI00751142	Lamp	VGE Pro T5 75W 867 SPT AM
Barcode	8714404045155	Lamp lifetime	16.000 hours
Material	Inox 316L	Recommended flow at 30 mJ/cm ² (98% transmission)	7 m ³ /h
Reactor diameter	Ø 114 mm	Recommended flow at 40 mJ/cm ² (98% transmission)	5,1 m ³ /h
Reactor length	850 mm	Recommended flow at 60 mJ/cm ² (98% transmission)	3,5 m ³ /h
Reactor shape	U	Max. pressure	6 bar (87 psi)
Connection mm	2" male threaded BSP	Max flow	12 m ³ /h
Connection DN	n/a	Weight	10,5 kg
UV-C lamp power	75 Watt	Package dimensions	101x24x25 cm
Article code lamp	F980108	Pipe clamp (optional)	2x B299501

VGE Pro UV INOX 140-114



Ideal unit **for light commercial applications** such as offices, small hotels, daycare centers and other facilities that need safe water. Also perfect for pools, ponds and low volume professional appliances. Safe and continuous water disinfection without use of chemicals. Flow rate up to 12 m³/h. Suitable for providing tap water without bacteria. In combination with Basic, Control Timer, Control Monitor or Control Monitor Plus. UV-C sensor optional. Easy installing and maintenance. Lamp replacement without tools.



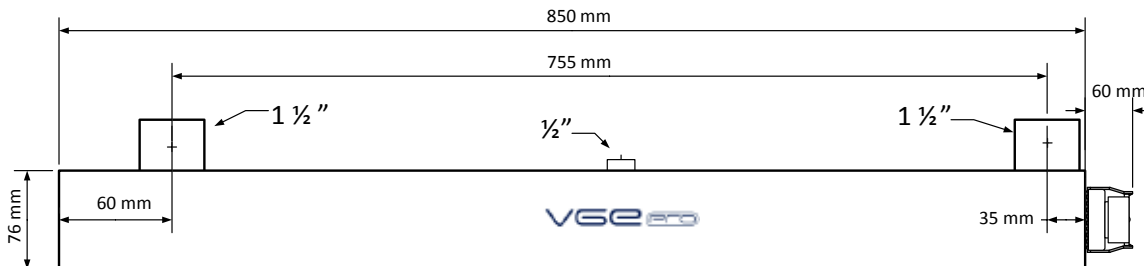
TECHNICAL SPECIFICATIONS

Article code	VI01401142	Lamp	VGE Pro T6 140W 867 SPT
Barcode	8714404044967	Lamp lifetime	16.000 hours
Material	Inox 316L	Recommended flow at 30 mJ/cm ² (98% transmission)	12 m ³ /h
Reactor diameter	Ø 114 mm	Recommended flow at 40 mJ/cm ² (98% transmission)	8,5 m ³ /h
Reactor length	850 mm	Recommended flow at 60 mJ/cm ² (98% transmission)	6 m ³ /h
Reactor shape	U	Max. pressure	6 bar (87 psi)
Connection mm	2" male threaded BSP	Max flow	12 m ³ /h
Connection DN	n/a	Weight	10,5 kg
UV-C lamp power	140 Watt	Package dimensions	101x24x25 cm
Article code lamp	F980102	Pipe clamp (optional)	2x B299501

VGE Pro UV INOX 140-76



Perfect unit for disinfecting water with low transmission. Perfect disinfection thanks to high power and treatment very close to the UV-C lamp. Flow rate up to 10 m³/h. Suitable for providing safe water under difficult circumstances. Perfect for horticulture and aquaculture. In combination with Basic, Control Timer, Control Monitor or Control Monitor Plus. UV-C sensor optional. Easy installing and maintenance.



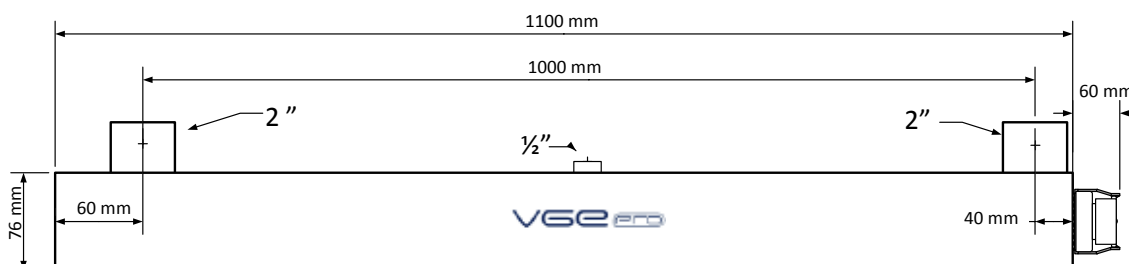
TECHNICAL SPECIFICATIONS

Article code	VI01400762	Lamp	VGE Pro T6 140W 867 SPT
Barcode	8714404044899	Lamp lifetime	16.000 hours
Material	Inox 316L	Recommended flow at 30 mJ/cm ² (98% transmission)	6,5 m ³ /h
Reactor diameter	Ø 76 mm	Recommended flow at 40 mJ/cm ² (98% transmission)	5,0 m ³ /h
Reactor length	850 mm	Recommended flow at 60 mJ/cm ² (98% transmission)	3,3 m ³ /h
Reactor shape	U	Max. pressure	6 bar (87 psi)
Connection mm	1,5" male threaded BSP	Max flow	12 m ³ /h
Connection DN	n/a	Weight	6,5 kg
UV-C lamp power	140 Watt	Package dimensions	119x24x21 cm
Article code lamp	F980102	Pipe clamp (optional)	2x B299500

VGE Pro UV INOX 200-76



Perfect unit **for disinfecting water with low transmission**. Perfect disinfection thanks to high power and treatment very close to the UV-C lamp. Flow rate up to 12 m³/h. Suitable for providing safe water under difficult circumstances. Perfect for horticulture and aquaculture In combination with Basic, Control Monitor or Control Monitor Plus. UV-C sensor optional. Easy installing and maintenance. Lamp replacement without tools.



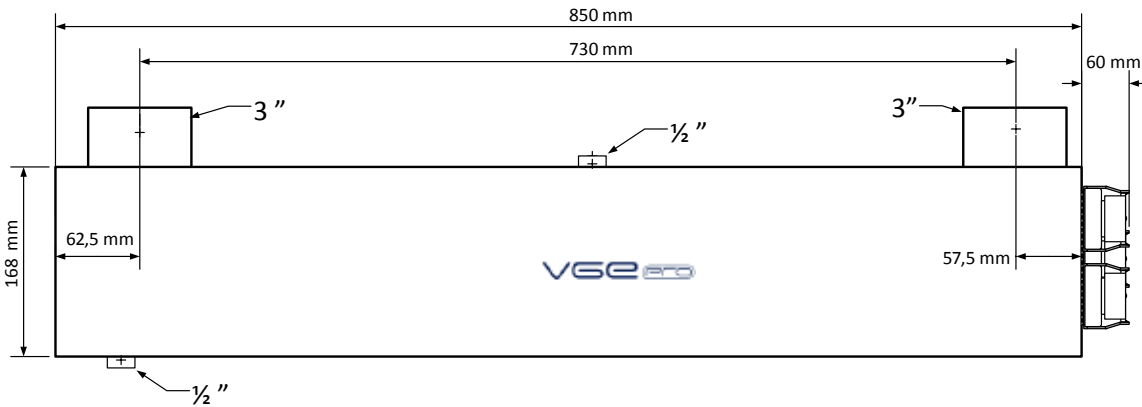
TECHNICAL SPECIFICATIONS

Article code	VI02000762	Lamp	VGE Pro T6 200W 1115 SPT
Barcode	8714404044943	Lamp lifetime	16.000 hours
Material	Inox 316L	Recommended flow at 30 mJ/cm ² (98% transmission)	9,6 m ³ /h
Reactor diameter	Ø 76 mm	Recommended flow at 40 mJ/cm ² (98% transmission)	7,1 m ³ /h
Reactor length	1100 mm	Recommended flow at 60 mJ/cm ² (98% transmission)	5 m ³ /h
Reactor shape	U	Max. pressure	6 bar (87 psi)
Connection mm	2" male threaded BSP	Max flow	12 m ³ /h
Connection DN	n/a	Weight	7,5 kg
UV-C lamp power	200 Watt	Package dimensions	119x24x21 cm
Article code lamp	F980103	Pipe clamp (optional)	2x B299500

VGE Pro UV INOX 420-168



High quality, compact multi-lamp disinfection unit (3 x 140 W). Commercial and professional appliances. Flow rate up to 33 m³/h. Perfect for pools, ponds and various professional appliances and very suitable for horticulture and aquaculture. In combination with Basic, Control Monitor or Control Monitor Plus. UV-C sensor optional. Easy installing and maintenance. Lamp replacement without tools.



TECHNICAL SPECIFICATIONS

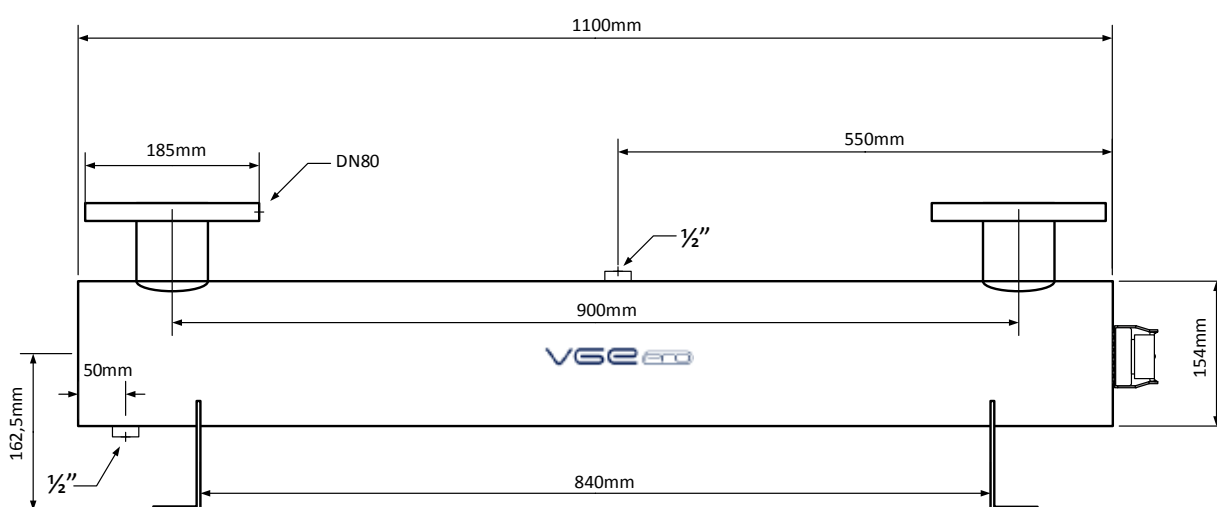
Article code	VI04201682	Lamp	VGE Pro T6 140W 867 SPT
Barcode	8714404045032	Lamp lifetime	16.000 hours
Material	Inox 316L	Recommended flow at 30 mJ/cm ² (98% transmission)	33 m ³ /h *
Reactor diameter	Ø 168 mm	Recommended flow at 40 mJ/cm ² (98% transmission)	33 m ³ /h *
Reactor length	850 mm	Recommended flow at 60 mJ/cm ² (98% transmission)	26 m ³ /h
Reactor shape	U	Max. pressure	6 bar (87 psi)
Connection mm	3" male threaded BSP	Max flow	33 m ³ /h
Connection DN	n/a	Weight	18,8 kg
UV-C lamp power	3 x 140 Watt	Package dimensions	101x39x30 cm
Article code lamp	F980102	Pipe clamp (optional)	2x B299502

* Maximum flow 33 m³/h (33 m³/h = 52 mJ/cm³)

VGE Pro UV INOX 200-154



Ideal unit **for commercial applications in professional industry**. Safe and continuous water disinfection without use of chemicals. Flow rate up to 24 m³/h. Suitable for providing safe water without harmful micro-organisms and very suitable for pools, ponds and low volume professional appliances. In combination with Basic, Control Monitor or Control Monitor Plus. UV-C sensor optional. Easy installing and maintenance. Lamp replacement without tools.



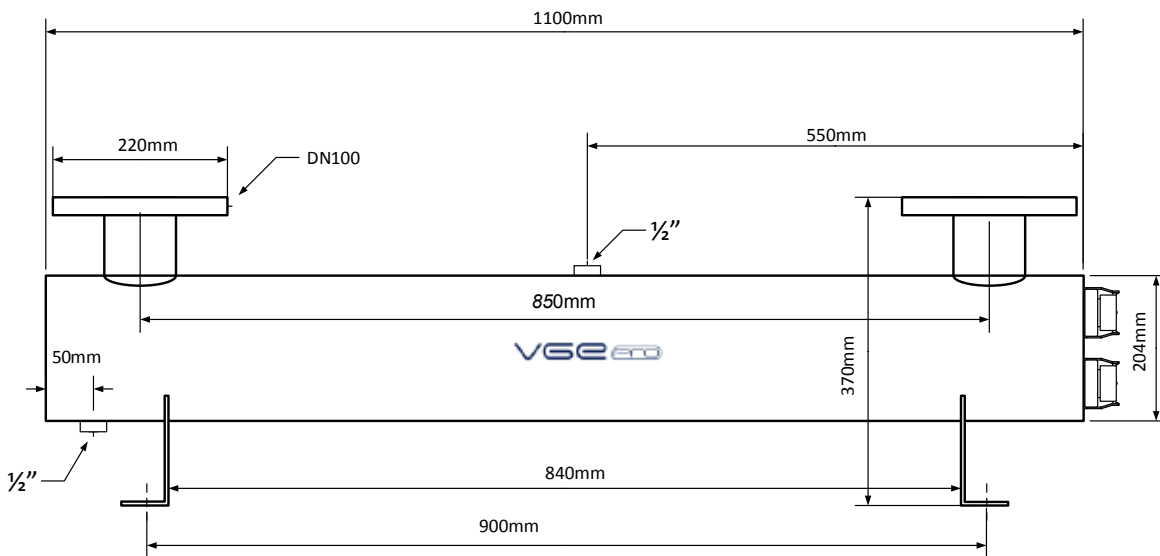
TECHNICAL SPECIFICATIONS

Article code	VI02001542	Lamp	VGE Pro T6 200W 1115 SPT
Barcode	8714404044875	Lamp lifetime	16.000 hours
Material	Inox 316L	Recommended flow at 30 mJ/cm ² (98% transmission)	24 m ³ /h
Reactor diameter	Ø 154 mm	Recommended flow at 40 mJ/cm ² (98% transmission)	18 m ³ /h
Reactor length	1100 mm	Recommended flow at 60 mJ/cm ² (98% transmission)	12 m ³ /h
Reactor shape	U	Max. pressure	6 bar (87 psi)
Connection mm	90 mm flange	Max flow	24 m ³ /h
Connection DN	DN80 flange	Weight	21,8 kg
UV-C lamp power	200 Watt	Package dimensions	119x39x33 cm
Article code lamp	F980103	Pipe clamp (optional)	n/a

VGE Pro UV INOX 400-204



Multi-lamp unit (2 x 200 W) **for commercial applications in professional industry.** Safe and continuous water disinfection without use of chemicals. Flow rate up to 50 m³/h. Suitable for providing safe water without harmful micro-organisms in all sectors where perfect disinfection is needed. In combination with Basic or Control Monitor Plus. UV-C sensor optional. Easy installing and maintenance. Lamp replacement without tools.



TECHNICAL SPECIFICATIONS

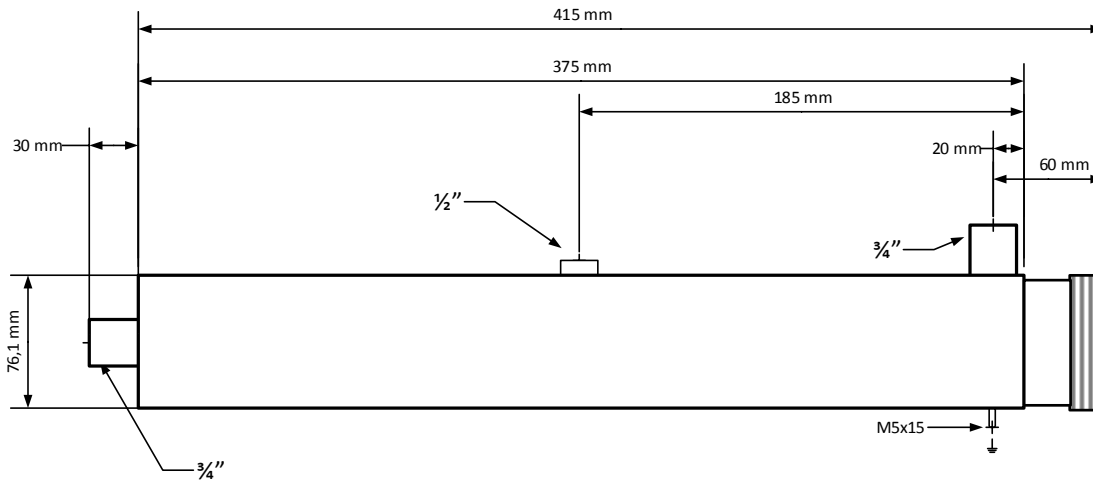
Article code	VI04002042	Lamp	VGE Pro T6 200W 1115 SPT
Barcode	8714404044806	Lamp lifetime	16.000 hours
Material	Inox 316L	Recommended flow at 30 mJ/cm ² (98% transmission)	50 m ³ /h*
Reactor diameter	Ø 204 mm	Recommended flow at 40 mJ/cm ² (98% transmission)	49 m ³ /h
Reactor length	1100 mm	Recommended flow at 60 mJ/cm ² (98% transmission)	33 m ³ /h
Reactor shape	U	Max. pressure	6 bar (87 psi)
Connection mm	110 mm flange	Max flow	50 m ³ /h
Connection DN	DN100 flange	Weight	30 kg
UV-C lamp power	2 x 200 Watt	Package dimensions	119x39x39 cm
Article code lamp	F980103	Pipe clamp (optional)	n/a

* Maximum flow 50 m³/h (50 m³/h = 39 mJ/cm³)

VGE Pro UV INOX 3S



The 3S is equipped with a total 316 L stainless steel housing and a 3/4" male threaded connection. The design of the housing takes care of an optimal installation flexibility. In the 3S a UVC-radiation of 253,7nm wave length is generated with a UV-lamp. Algae, bacteria and pathogens get no chance to develop (among them the legionella bacteria). The 3S is provided with a high frequency transformer. This transformer prevents current fluctuations to protect the lamp. The build in timer allows you keeps count for the amount of hours the lamp has been used to indicate the time of replacement. The inner housing 316L stainless steel reflects UV-radiation for about 35% more efficiency. These lamps are also appropriate for the use in professional areas such as agriculture/horticulture, industry and water treatment.



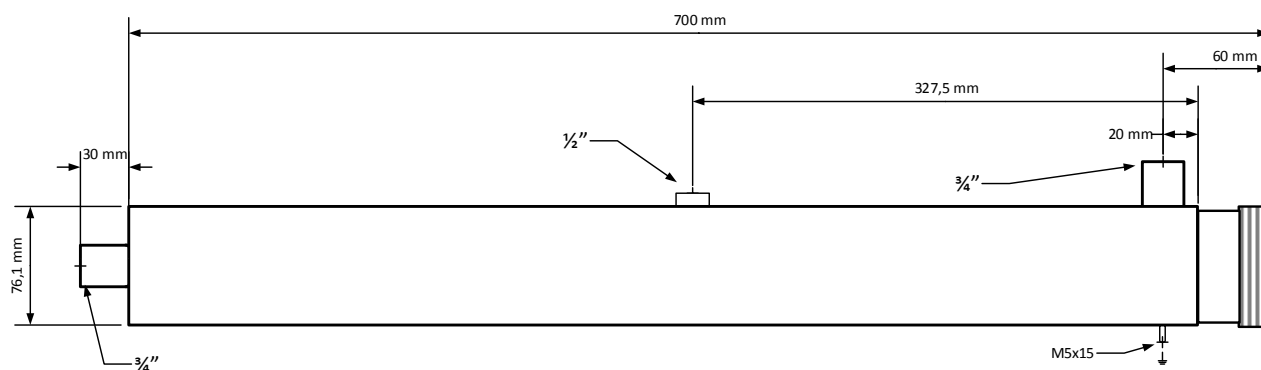
TECHNICAL SPECIFICATIONS

Article code	XP04402.1	Lamp	VGE T5 40W 4P
Barcode	8714404043748	Lamp lifetime	9.000 hours
Material	Inox 316L	Recommended flow at 30 mJ/cm ² (98% transmission)	2 m ³ /h
Reactor diameter	Ø 76 mm	Recommended flow at 40 mJ/cm ² (98% transmission)	1,3 m ³ /h
Reactor length	445 mm	Recommended flow at 60 mJ/cm ² (98% transmission)	0,85 m ³ /h
Reactor shape	L	Max. pressure	6 bar (87 psi)
Connection mm	3/4" male threaded BSP	Max flow	2 m ³ /h
Connection DN	n/a	Weight	3,8 kg
UV-C lamp power	40 Watt	Package dimensions	55x33x12 cm
Article code lamp	F980068		

VGE Pro UV INOX 3L



The 3L is equipped with a total 316 L stainless steel housing and a 3/4" male threaded connection. The design of the housing takes care of an optimal installation flexibility. In the 3L a UVC-radiation of 253,7nm wave length is generated with a UV-lamp. Algae, bacteria and pathogens get no chance to develop (among them the legionella bacteria). The 3L is provided with a high frequency transformer. This transformer prevents current fluctuations to protect the lamp. The build in timer allows you keeps count for the amount of hours the lamp has been used to indicate the time of replacement. The inner housing 316L stainless steel reflects UV-radiation for about 35% more efficiency. These lamps are also appropriate for the use in professional areas such as agriculture/horticulture, industry and water treatment.



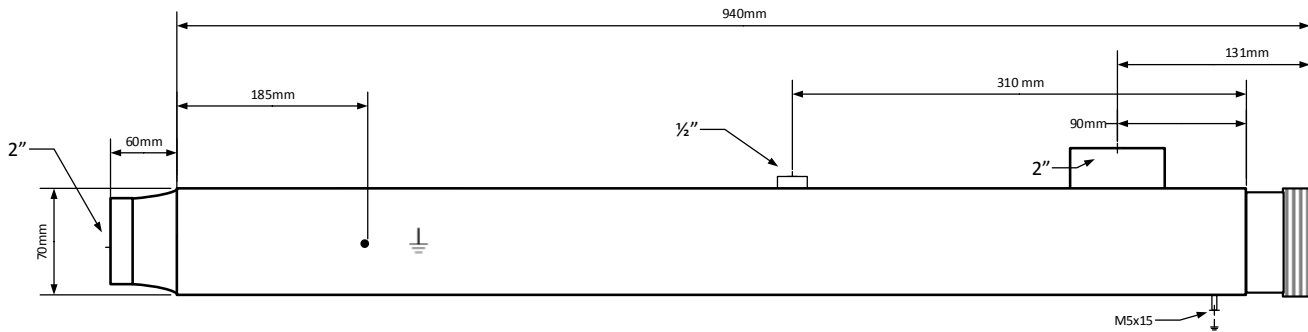
TECHNICAL SPECIFICATIONS

Article code	XP05752	Lamp	VGE T5 75W base G
Barcode	8714404043762	Lamp lifetime	9.000 hours
Material	INOX	Recommended flow at 30 mJ/cm ² (98% transmission)	4,3 m ³ /h
Reactor diameter	Ø 76 mm	Recommended flow at 40 mJ/cm ² (98% transmission)	3,3 m ³ /h
Reactor length	730 mm	Recommended flow at 60 mJ/cm ² (98% transmission)	2,1 m ³ /h
Reactor shape	L	Max. pressure	6 bar (87 psi)
Connection mm	3/4" male threaded BSP	Max flow	4,3 m ³ /h
Connection DN	n/a	Weight	5,5 kg
UV-C lamp power	75 Watt	Package dimensions	101x27x15 cm
Article code lamp	F980079BU		

VGE Pro UV INOX 8L



The 8L is equipped with a total 316 L stainless steel housing and a 2" male threaded connection. The design of the housing takes care of an optimal installation flexibility. In 8L a UVC-radiation of 253,7nm wave length is generated with a UV-lamp. Algae, bacteria and pathogens get no chance to develop (among them the legionella bacteria). The 8L is provided with a high frequency transformer. This transformer prevents current fluctuations to protect the lamp. The inner housing 316L stainless steel reflects UV-radiation for about 35% more efficiency. The build in timer allows you keeps count for the amount of hours the lamp has been used to indicate the time of replacement. The 8L is also appropriate for the use in professional areas such as agriculture/horticulture, industry and water treatment. Provided with the Philips Smart Cap technology for optimal safety!



TECHNICAL SPECIFICATIONS

Article code	XP05752	Lamp	Philips TUV Smart Cap 75W
Barcode	871440404981	Lamp lifetime	9.000 hours
Material	INOX	Recommended flow at 30 mJ/cm ² (98% transmission)	4,1 m ³ /h
Reactor diameter	Ø 70 mm	Recommended flow at 40 mJ/cm ² (98% transmission)	3,1 m ³ /h
Reactor length	940 mm	Recommended flow at 60 mJ/cm ² (98% transmission)	2,1 m ³ /h
Reactor shape	L	Max. pressure	6 bar (87 psi)
Connection mm	¾" male threaded BSP	Max flow	12 m ³ /h
Connection DN	n/a	Weight	6 kg
UV-C lamp power	75 Watt	Package dimensions	101x27x15 cm
Article code lamp	B280005		



Overview complete VGE Pro HDPE UV-C system



○ VGE Pro UV-C control units

Each VGE Pro UV-C purifier is equipped with a control cabinet. There are four options which can be combined with a suitable VGE Pro unit and several other options like a temperature sensor and a flow switch.

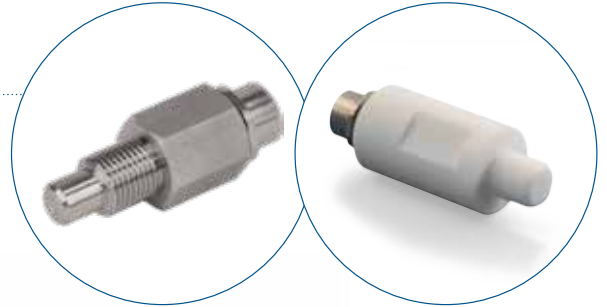


Smart Pin Technology

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.

UV-C & Temperature sensor

VGE Pro UV-C units can be equipped with a UV-C & Temperature sensor. These digital sensors can be delivered in teflon or stainless steel. The VGE Pro control monitors are designed to work with these UV-C & Temperature sensors.

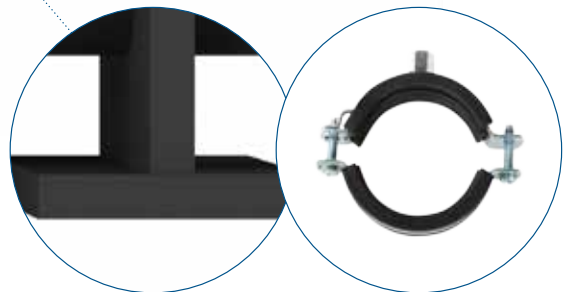


Reactors

The high quality HDPE reactors of VGE Pro HDPE series have been designed to treat highly polluted water. They are suited for all kinds of industrial water purification and can even be used for the production of ultrapure water, semiconductor-, pharmaceutical- and cosmetic industry. Other applications: swimming pools, saltwater systems, process water treatment and aquaculture.

Supports

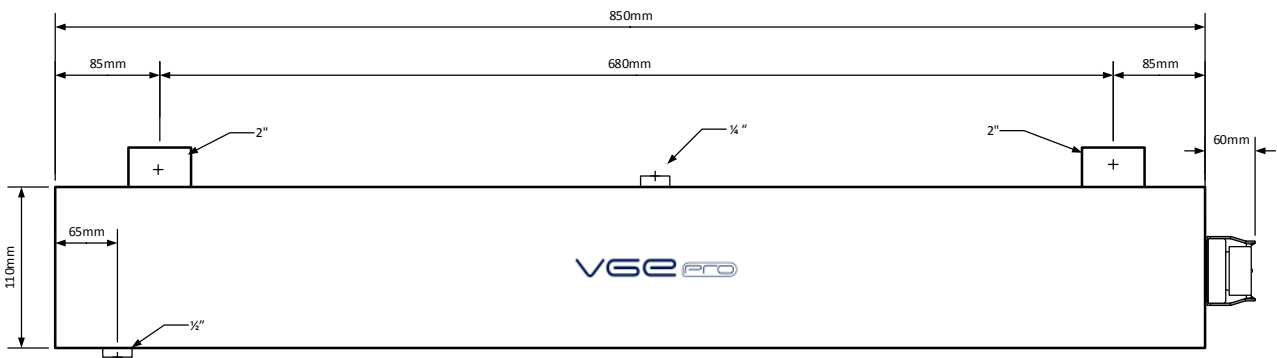
The high quality reactors of VGE Pro series can be equipped with different kind of supports.



VGE Pro UV HDPE 140-110



Perfect unit for disinfecting water with low transmission. Perfect disinfection thanks to high power and treatment very close to the UV-C lamp. Flow rate up to 12 m³/h. Suitable for providing safe water under difficult circumstances. Perfect for horticulture and aquaculture. Suitable for any type of water, including salt water. In combination with a Basic, Control Timer, Control Monitor or Control Monitor Plus. UV-C and temperature sensor are optional. Easy installing and maintenance.



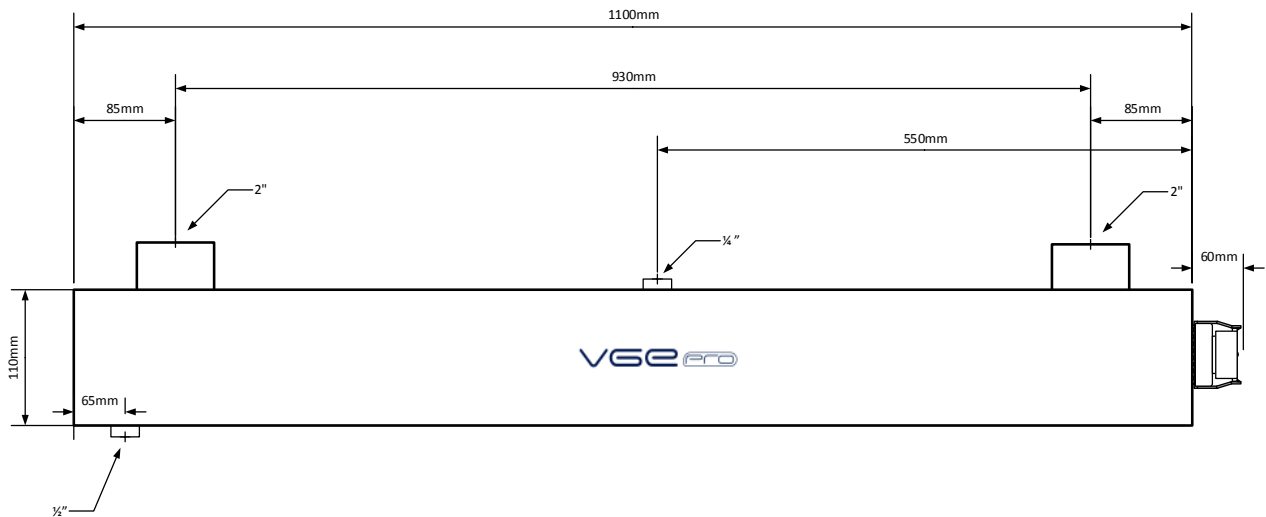
TECHNICAL SPECIFICATIONS

Article code	VH01401102	Lamp lifetime	16.000 hours
Barcode	8714404045520	Recommended flow at 30 mJ/cm ² (98% transmission)	10 m ³ /h
Material	HDPE	Recommended flow at 40 mJ/cm ² (98% transmission)	7,5 m ³ /h
Reactor diameter	Ø 110 mm	Recommended flow at 60 mJ/cm ² (98% transmission)	5 m ³ /h
Reactor length	850 mm	Max. pressure	6 bar (87 psi)
Reactor shape	U	Max flow	12 m ³ /h
Connection mm	2" male thread BSP	Weight	7 kg
Connection DN	N/a	Package dimensions	101x24x25 cm
UV-C lamp power	140 Watt	Pipe clamp (optional)	2x B299501
Article code lamp	F980102	HDPE support set (optional)	B212084
Lamp	VGE Pro T6 140W 867 SPT		

VGE Pro UV HDPE 200-110



Ideal unit for light commercial applications such as offices, small hotels, daycare centers and other facilities that need safe water. Also perfect for pools, ponds and low volume professional appliances. Flow rate up to 12 m³/h. Suitable for providing safe water under difficult circumstances. Perfect for horticulture and aquaculture In combination with Basic, Control Monitor or Control Monitor Plus. UV-C sensor optional. Easy installing and maintenance. Lamp replacement without tools.



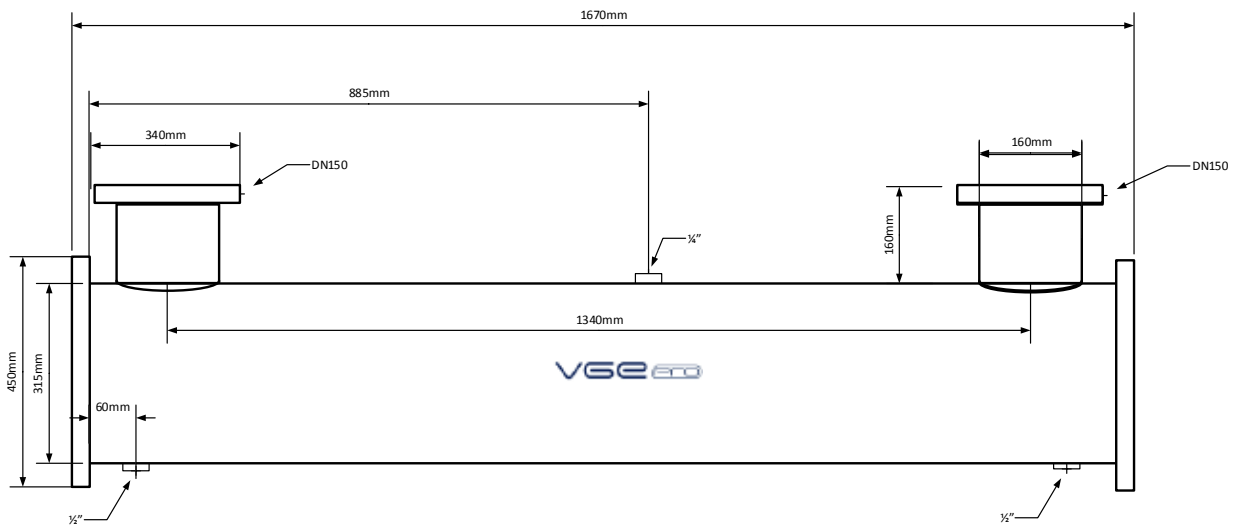
TECHNICAL SPECIFICATIONS

Article code	VH02001102	Lamp lifetime	16.000 hours
Barcode	8714404046435	Recommended flow at 30 mJ/cm ² (98% transmission)	12 m ³ /h *
Material	HDPE	Recommended flow at 40 mJ/cm ² (98% transmission)	11,5 m ³ /h
Reactor diameter	Ø 110 mm	Recommended flow at 60 mJ/cm ² (98% transmission)	7,5 m ³ /h
Reactor length	1100 mm	Max. pressure	6 bar (87 psi)
Reactor shape	U	Max flow	12 m ³ /h
Connection mm	2" male thread BSP	Weight	7,5 kg
Connection DN	n/a	Package dimensions	119x39x33 cm
UV-C lamp power	200 Watt	Pipe clamp (optional)	2x B299501
Article code lamp	F980103	HDPE support set (optional)	B212084
Lamp	VGE Pro T6 200W 115 SPT	* Maximum flow 12 m ³ /h (12 m ³ /h = 37 mJ/cm ³)	

VGE Pro UV HDPE 975-315



The VGE Pro UV HDPE is designed to treat highly polluted water. It is suited for all kinds of industrial water purification and can even be used for the production of ultrapure water, semiconductor-, pharmaceutical- and cosmetic industry. Other applications: swimming pools, process water treatment and aquaculture.



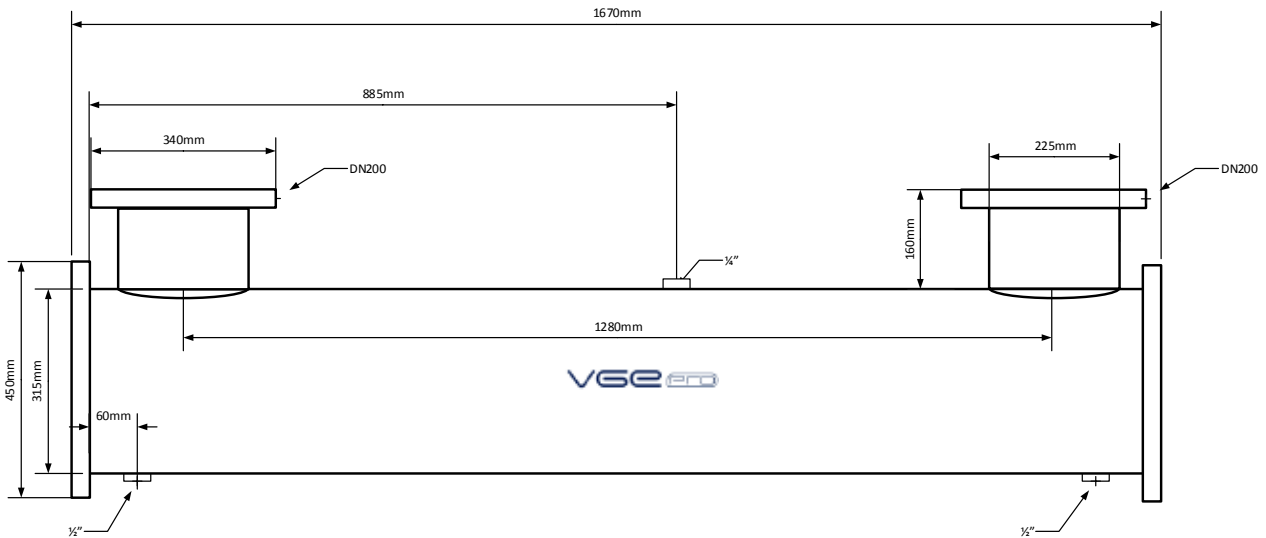
TECHNICAL SPECIFICATIONS

Article code	XP0733252	Lamp lifetime	16.000 hours
Barcode	8714404044226	Recommended flow at 30 mJ/cm ² (98% transmission)	n/a
Material	HDPE	Recommended flow at 40 mJ/cm ² (98% transmission)	n/a
Reactor diameter	Ø 315mm	Recommended flow at 60 mJ/cm ² (98% transmission)	115 m ³ /h
Reactor length	1670 mm	Max. pressure	6 bar (87 psi)
Reactor shape	U	Max flow	150 m ³ /h
Connection mm	160mm flange	Weight	165 kg
Connection DN	DN150 flange	Package dimensions	109x76x187cm
UV-C lamp power	3 x 325 Watt	Pipe clamp (optional)	n/a
Article code lamp	3903025	HDPE support set (optional)	B212023
Lamp	VGE T6 325W 4P Amalgam		

VGE Pro UV HDPE 1950-315



The VGE Pro UV HDPE is designed to treat highly polluted water. It is suited for all kinds of industrial water purification and can even be used for the production of ultrapure water, semiconductor-, pharmaceutical- and cosmetic industry. Other applications: swimming pools, process water treatment and aquaculture.



TECHNICAL SPECIFICATIONS

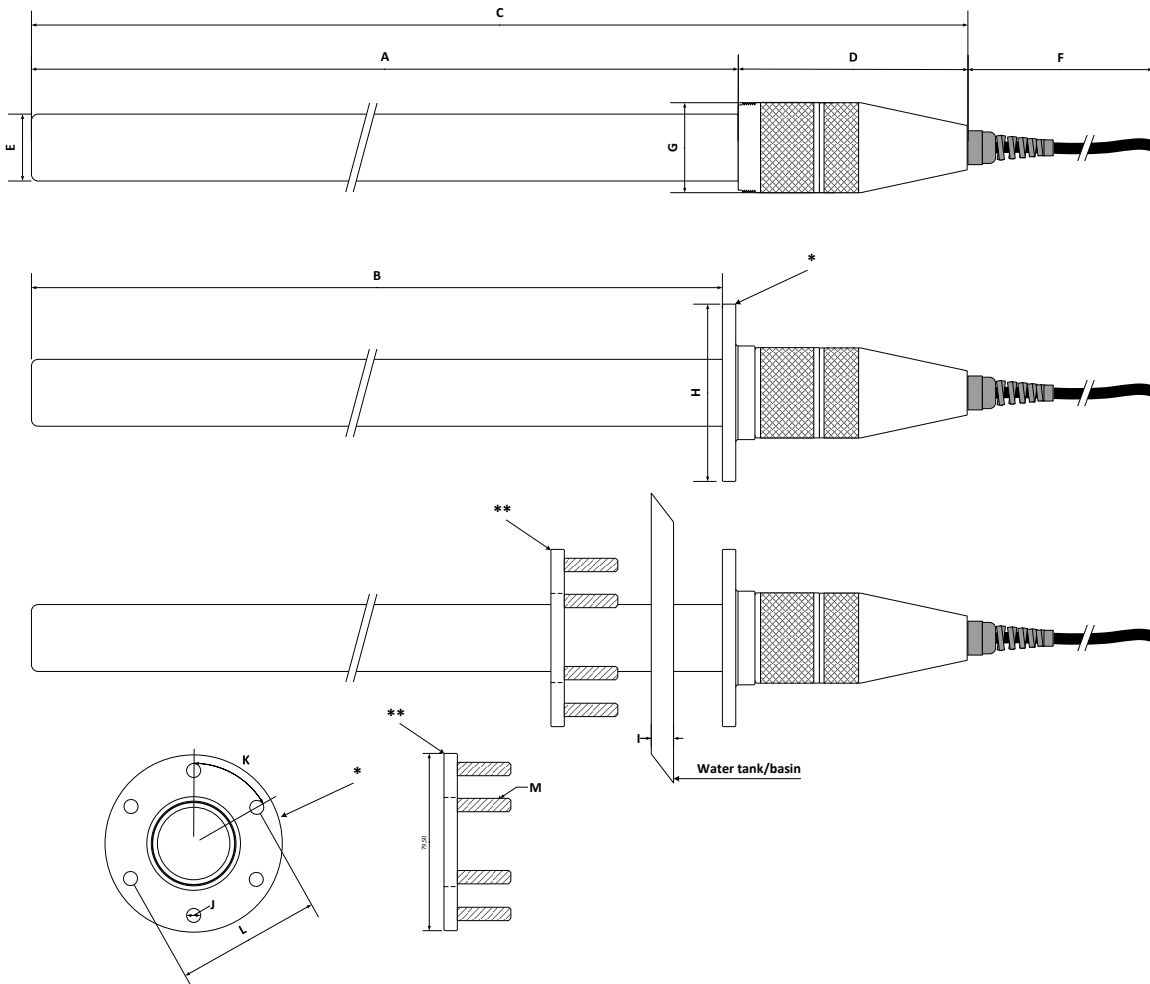
Article code	XP0763252	Lamp lifetime	16.000 hours
Barcode	8714404044233	Recommended flow at 30 mJ/cm ² (98% transmission)	n/a
Material	HDPE	Recommended flow at 40 mJ/cm ² (98% transmission)	n/a
Reactor diameter	Ø 315mm	Recommended flow at 60 mJ/cm ² (98% transmission)	218 m ³ /h
Reactor length	1670mm	Max. pressure	6 bar (87 psi)
Reactor shape	U	Max flow	250 m ³ /h
Connection mm	225mm flange	Weight	165 kg
Connection DN	DN200 flange	Package dimensions	109x76x187cm
UV-C lamp power	6 x 325 Watt	Pipe clamp (optional)	n/a
Article code lamp	3903025	HDPE support set (optional)	B212023
Lamp	VGE T6 325W 4P Amalgam		



VGE Pro UV INOX IMMERSION



Submersible UV-C lamps have a big advantage compared to conventional UV-C units: no pressure loss! These lamps can be used in filter tanks so the water can pass without any resistance/ pressure loss. A special mounting and connection flange are available for direct end easy installation. In combination with Basic, Control Timer, Control Monitor and Control Monitor Plus. UV-C sensor is optional. Easy installing and maintenance. Lamp replacement without tools.



Product Nr.	Product name	A	B	C	D	E	F	G	H	I	J	K	L	M
VI00400250	VGE PRO UV INOX IMMERSION 40W	352mm	348mm	450mm	97,5mm	25mm	±9mtr	40,5mm	97,5mm	Max.10mm	6,3mm	60°	65mm	M6
VI00800250	VGE PRO UV INOX IMMERSION 80W	595mm	591mm	675mm	97,5mm	25mm	±9mtr	40,5mm	97,5mm	Max.10mm	6,3mm	60°	65mm	M6
VI01300300	VGE PRO UV INOX IMMERSION 130W	843mm	839mm	923mm	97,5mm	30mm	±9mtr	40,5mm	97,5mm	Max.10mm	6,3mm	60°	65mm	M6
VI02000300	VGE PRO UV INOX IMMERSION 200W	1140mm	1136mm	1220mm	97,5mm	30mm	±9mtr	40,5mm	97,5mm	Max.10mm	6,3mm	60°	65mm	M6
VI03250300	VGE PRO UV INOX IMMERSION 325W	1573mm	1569mm	1653mm	97,5mm	30mm	±9mtr	40,5mm	97,5mm	Max.10mm	6,3mm	60°	65mm	M6

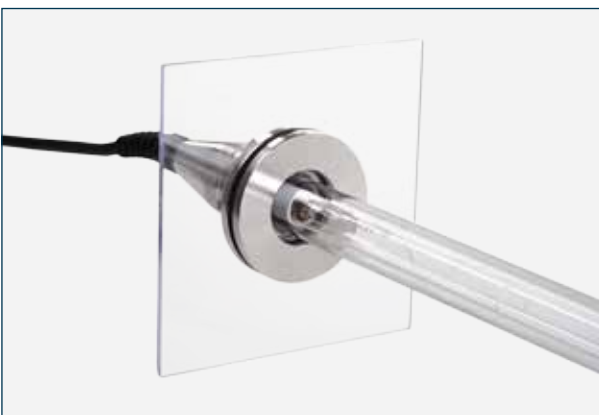
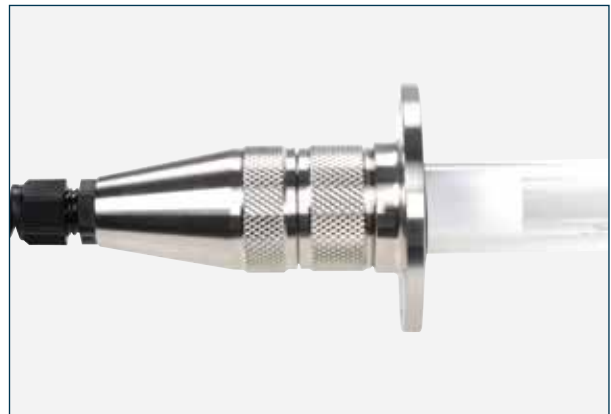
TECHNICAL SPECIFICATIONS

Lamp VGE T5 40W 4P Amalgam
VGE T5 80W 4P Amalgam
VGE T6 130W 4P Amalgam
VGE T6 200W 4P Amalgam
VGE T6 325W 4P Amalgam

Lamp lifetime 16.000 hours

Max. pressure 6 bar (87 psi)

Max. depth 60 meters / 196 feet



Overview VGE Pro UV purifiers

Technical specs VGE Pro INOX, HDPE and IMMERSION

Part number	commercial name	EAN	Material	Reactor diameter	Reactor length	Reactor shape	Connection mm	Connection DN	UV-C lamp power consumption	Lamp art. Code
VI00400762	VGE Pro UV INOX 40-76	8714404045292	Inox 316L	Ø 76mm	370 mm	L	3/4" male threaded BSP	-	40 Watt	F980107
VI00750762	VGE Pro UV INOX 75-76	8714404045223	Inox 316L	Ø 76mm	655 mm	L	3/4" male threaded BSP	-	75 Watt	F980109
VI00751142	VGE Pro UV INOX 75-114	8714404045155	Inox 316L	Ø 114mm	850 mm	U	2" male threaded BSP	-	75 Watt	F980108
VI01401142	VGE Pro UV INOX 140-114	8714404044967	Inox 316L	Ø 114mm	850 mm	U	2" male threaded BSP	-	140 Watt	F980102
VI01400762	VGE Pro UV INOX 140-76	8714404044899	Inox 316L	Ø 76mm	850 mm	U	1,5" male threaded BSP	-	140 Watt	F980102
VI02000762	VGE Pro UV INOX 200-76	8714404044943	Inox 316L	Ø 76mm	1100 mm	U	2" male threaded BSP	-	200 Watt	F980103
VI02001542	VGE Pro UV INOX 200-154	8714404044875	Inox 316L	Ø 154 mm	1100 mm	U	90 mm flange	DN80 flange	200 Watt	F980103
VI04002042	VGE Pro UV INOX 400-204	8714404044806	Inox 316L	Ø 204 mm	1100 mm	U	110 mm flange	DN100 flange	2 x 200 Watt	F980103
VI04201682	VGE Pro UV INOX 420-168	8714404045032	Inox 316L	Ø 168 mm	850 mm	U	3" male threaded BSP	-	3 x 140 Watt	F980102
VI06002192	VGE Pro UV INOX 600-219	8714404986571	Inox 316L	Ø 219 mm	1100 mm	U	140 mm flange	DN125 flange	3 x 200 Watt	F980103
XP04402.1	VGE Pro UV INOX 3S	8714404043748	Inox 316L	Ø 76mm	415mm	L	3/4" male threaded BSP	n/a	40 Watt	F980068
XP05752	VGE Pro UV INOX 3L	8714404043762	Inox 316L	Ø 76mm	700 mm	L	3/4" male threaded BSP	n/a	75 Watt	F980079BU
XP03752	VGE Pro UV INOX 8L	871440404981	Inox 316L	Ø 76mm	940 mm	L	2" male threaded BSP	n/a	75 Watt	B280005
VH01401102	VGE Pro UV HDPE 140-110	8714404045520	HDPE	Ø 110mm	850 mm	U	2" male threaded BSP	n/a	140 Watt	F980102
VH02001102	VGE Pro UV HDPE 200-110	8714404045599	HDPE	Ø 110mm	1100 mm	U	2" male threaded BSP	n/a	200 Watt	F980103
VH02001602	VGE Pro UV HDPE 200-160	8714404045667	HDPE	Ø 160mm	1100 mm	U	90 mm flange	DN80 flange	200 Watt	F980103
VH04002002	VGE Pro UV HDPE 400-200	8714404045735	HDPE	Ø 200mm	1100 mm	U	110 mm flange	DN100 flange	2 x 200 Watt	F980103
VH06002252	VGE Pro UV HDPE 600-225	8714404045803	HDPE	Ø 225mm	1100 mm	U	140 mm flange	DN125 flange	3 x 200 Watt	F980103
XP0733252	VGE Pro UV HDPE 975-315	8714404044226	HDPE	Ø 315mm	1670 mm	U	160 mm flange	DN150 flange	3x 325 Watt	3903025
XP0763252	VGE Pro UV HDPE 1950-315	8714404044233	HDPE	Ø 315mm	1670 mm	U	225 mm flange	DN200 flange	6x 325 Watt	3903025
VI00400250	VGE Pro UV INOX IMMERSION 40	8714404046558	Inox 316L	Ø 40,5mm	450mm	I	97,5mm flange	special flange	40 Watt	4800070AM
VI00800250	VGE Pro UV INOX IMMERSION 80	8714404046626	Inox 316L	Ø 40,5mm	675mm	I	97,5mm flange	special flange	80 Watt	4800082AM
VI01300300	VGE Pro UV INOX IMMERSION 130	8714404046695	Inox 316L	Ø 40,5mm	923mm	I	97,5mm flange	special flange	130 Watt	F980007
VI02000300	VGE Pro UV INOX IMMERSION 200	8714404046763	Inox 316L	Ø 40,5mm	1220mm	I	97,5mm flange	special flange	200 Watt	F980115
VI03250300	VGE Pro UV INOX IMMERSION 325	8714404046831	Inox 316L	Ø 40,5mm	1653mm	I	97,5mm flange	special flange	325 Watt	3903025

Part number	Lamp	Lamp lifetime	Quartz glass (SP)	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)	Max. pressure	Max flow	Weight (kg)	Dimension package	Number on a pallet
VI00400762	VGE Pro T5 40W 389 SPT AM	16.000h	QG040	2 m ³ /h	1,3 m ³ /h	0,85 m ³ /h	6 bar (87 psi)	2 m ³ /h	3,5	49x23x26 cm	36
VI00750762	VGE Pro T5 75W 680 SPT AM	16.000h	QG043	4,3 m ³ /h	3,3 m ³ /h	2,1 m ³ /h	6 bar (87 psi)	4 m ³ /h	5,1	79x22x21 cm	35
VI00751142	VGE Pro T5 75W 867 SPT AM	16.000h	QG051	7 m ³ /h	5,1 m ³ /h	3,5 m ³ /h	6 bar (87 psi)	12 m ³ /h	10,5	101x24x25 cm	18
VI01401142	VGE Pro T6 140W 867 SPT	16.000h	QG051	12 m ³ /h	8,5 m ³ /h	6 m ³ /h	6 bar (87 psi)	12 m ³ /h	10,5	101x24x25 cm	18
VI01400762	VGE Pro T6 140W 867 SPT	16.000h	QG051	6,5 m ³ /h	5,0 m ³ /h	3,3 m ³ /h	6 bar (87 psi)	12 m ³ /h	6,5	119x24x21 cm	21
VI02000762	VGE Pro T6 200W 1115 SPT	16.000h	QG052	9,6 m ³ /h	7,1 m ³ /h	5 m ³ /h	6 bar (87 psi)	12 m ³ /h	7,5	119x24x21 cm	21
VI02001542	VGE Pro T6 200W 1115 SPT	16.000h	QG052	24 m ³ /h	18 m ³ /h	12 m ³ /h	6 bar (87 psi)	24 m ³ /h	21,81	119x39x33 cm	8
VI04002042	VGE Pro T6 200W 1115 SPT	16.000h	QG052	*	49 m ³ /h	33 m ³ /h	6 bar (87 psi)	50 m ³ /h	30	119x39x39 cm	8
VI04201682	VGE Pro T6 140W 867 SPT	16.000h	QG051	*	*	26 m ³ /h	6 bar (87 psi)	30 m ³ /h	18,86	101x39x30 cm	10
VI06002192	VGE Pro T6 200W 1115 SPT	16.000h	QG052	*	77 m ³ /h	52 m ³ /h	6 bar (87 psi)	77 m ³ /h	42	119x39x39 cm	8
XP04402.1	VGE T5 40W 4P	9.000h	QG018	2 m ³ /h	1,3 m ³ /h	0,85 m ³ /h	6 bar (87 psi)	2 m ³ /h	3,8	55x33x12 cm	40
XP05752	VGE T5 75W base G	9.000h	QG017	4,3 m ³ /h	3,3 m ³ /h	2,1 m ³ /h	6 bar (87 psi)	4 m ³ /h	5,4	101x27x15 cm	30
XP03752	Philips TUV Smart Cap	9.000h	QG020	4,1 m ³ /h	3,1 m ³ /h	2,1 m ³ /h	6 bar (87 psi)	12 m ³ /h	6	101x27x15 cm	30
VH01401102	VGE Pro T6 140W 867 SPT	16.000h	QG051	10 m ³ /h	7,5 m ³ /h	5 m ³ /h	6 bar (87 psi)	12 m ³ /h	7	101x24x25 cm	18
VH02001102	VGE Pro T6 200W 1115 SPT	16.000h	QG052	12 m ³ /h	11,5 m ³ /h	7,5 m ³ /h	6 bar (87 psi)	12 m ³ /h	7,5	119x39x33 cm	8
VH02001602	VGE Pro T6 200W 1115 SPT	16.000h	QG052	23 m ³ /h	17 m ³ /h	11,5 m ³ /h	6 bar (87 psi)	24 m ³ /h	12	119x39x33 cm	8
VH04002002	VGE Pro T6 200W 1115 SPT	16.000h	QG052	*	43 m ³ /h	28 m ³ /h	6 bar (87 psi)	50 m ³ /h	18	119x39x39 cm	8
VH06002252	VGE Pro T6 200W 1115 SPT	16.000h	QG052	*	71 m ³ /h	48 m ³ /h	6 bar (87 psi)	77 m ³ /h	25	119x39x39 cm	8
XP0733252	VGE T6 4P 325W Amalgam base E	16.000h	3900694	*	*	115 m ³ /h	6 bar (87 psi)	150 m ³ /h	165	109x76x187 cm	1
XP0763252	VGE T6 4P 325W Amalgam base E	16.000h	3900694	*	*	218 m ³ /h	6 bar (87 psi)	250 m ³ /h	170	109x76x187 cm	1
VI00400250	VGE T5 4P 40W Amalgam base C	16.000h	QG062	*	*	*	6 bar (87 psi)	*	n/a	n/a	n/a
VI00800250	VGE T5 4P 80W Amalgam base C	16.000h	QG063	*	*	*	6 bar (87 psi)	*	n/a	n/a	n/a
VI01300300	VGE T6 4P 130W Amalgam base E	16.000h	QG064	*	*	*	6 bar (87 psi)	*	n/a	n/a	n/a
VI02000300	VGE T6 4P 200W Amalgam base E	16.000h	QG065	*	*	*	6 bar (87 psi)	*	n/a	n/a	n/a
VI03250300	VGE T6 4P 325W Amalgam base E	16.000h	QG066	*	*	*	6 bar (87 psi)	*	n/a	n/a	n/a

Overview units and options

REACTORS

CONTROLLER OPTIONS

		VGE Pro UV Basic	VGE Pro UV Control Timer	VGE Pro UV Control Monitor	UV sensor	Temperature sensor	Flow sensor	VGE Pro UV Control Monitor Plus	UV sensor	Temperature sensor	Flow sensor
Inox											
VI00400762	VGE Pro UV INOX 40-76	✓	✓	✓	✓		✓				
VI00750762	VGE Pro UV INOX 75-76	✓	✓	✓	✓		✓				
VI00751142	VGE Pro UV INOX 75-114	✓	✓	✓	✓		✓				
VI01401142	VGE Pro UV INOX 140-114	✓	✓	✓	✓		✓	✓	✓	✓	✓
VI01400762	VGE Pro UV INOX 140-76	✓	✓	✓	✓		✓	✓	✓	✓	✓
VI02000762	VGE Pro UV INOX 200-76	✓		✓	✓		✓	✓	✓	✓	✓
VI02001542	VGE Pro UV INOX 200-154	✓		✓	✓		✓	✓	✓	✓	✓
VI04002042	VGE Pro UV INOX 400-204	✓					✓	✓	✓	✓	✓
VI04201682	VGE Pro UV INOX 420-168	✓		✓	✓		✓	✓	✓	✓	✓
VI06002192	VGE Pro UV INOX 600-219	✓					✓	✓	✓	✓	✓
XP07332521	VGE Pro UV INOX 975	✓					✓	✓	✓	✓	✓
XP07632521	VGE Pro UV INOX 1950	✓					✓	✓	✓	✓	✓
HDPE											
VH01401102	VGE Pro UV HDPE 140-110	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VH02001102	VGE Pro UV HDPE 200-110	✓		✓	✓	✓	✓	✓	✓	✓	✓
VH02001602	VGE Pro UV HDPE 200-160	✓		✓	✓	✓	✓	✓	✓	✓	✓
VH04002002	VGE Pro UV HDPE 400-200	✓					✓	✓	✓	✓	✓
VH06002252	VGE Pro UV HDPE 600-225	✓					✓	✓	✓	✓	✓
XP0733252	VGE Pro UV HDPE 975-315	✓					✓	✓	✓	✓	✓
XP0763252	VGE Pro UV HDPE 1950-315	✓					✓	✓	✓	✓	✓
Inox Immersion											
VI00400250	VGE Pro UV INOX IMMERSION 40	✓	✓	✓							
VI00800250	VGE Pro UV INOX IMMERSION 80	✓	✓	✓							
VI01300300	VGE Pro UV INOX IMMERSION 130	✓	✓	✓			✓				
VI02000300	VGE Pro UV INOX IMMERSION 200	✓		✓			✓				
VI03250300	VGE Pro UV INOX IMMERSION 325	✓					✓				

*On request.

CONTROLLERS

ACCESSOIRES VGE PRO UV CONTROL

		UV sensor B212021 Reduction: 7201167	Temperature sensor B212035	Flow switch / sensor 3903797 *
EP040024	VGE Pro UV Control Timer 40			
EP040025	VGE Pro UV Control Monitor 40	✓		✓
EP075026	VGE Pro UV Control Timer 75			
EP075027	VGE Pro UV Control Monitor 75	✓		✓
EP080001	VGE Pro UV Basic 40/75/80			
EP130011	VGE Pro UV Control Timer 140			
EP130012	VGE Pro UV Control Monitor 140	✓		✓
EP130013	VGE Pro UV Basic 130/140			
EP200001	VGE Pro UV Control Monitor 200	✓		✓
EP390001	VGE Pro UV Control Monitor 420	✓		✓
EP200002	VGE Pro UV Control Monitor Plus 140/200	✓	✓	✓
EP600001	VGE Pro UV Control Monitor Plus 400 / 420 / 600	✓	✓	✓
EP975001	VGE Pro UV Control Monitor Plus 975	✓	✓	✓
EP195001	VGE Pro UV Control Monitor Plus 1950	✓	✓	✓

* Flow switch with cable connector complete 63/63. Suitable for 63mm connections.

ACCESSOIRES VGE PRO UV REACTORS

B299500	Pipe clamp FRS 72-78 2,5" INOX
B299501	Pipe clamp FRS 102-116mm 4" INOX
B299502	Pipe clamp FRS 149-168mm INOX
B212084	Set bracket Ø110 HDPE
B212083	Set bracket Ø160 HDPE
B212082	Set bracket Ø200 HDPE
B212081	Set bracket Ø225 HDPE
B212023	Set bracket Ø315 HDPE
SP0037	VGE PRO UV INOX IMMERSION Connecting flange
SP0038	VGE PRO UV INOX IMMERSION Mounting flange
F990148N	Viewing nut 1/2"
7201167	Reduction piece 1/4" x 1/2"
B212031	Plug M25





Delivery Conditions

VGE International B.V., domiciled at Ekkersrijt 4304 in Son, the Netherlands
General conditions of supply and payment

GENERAL TERMS AND CONDITIONS OF SALE VGE International B.V.

1. Orders

- 1.1 VGE International B.V. ("VGE International") is allowed to accept and reject orders of Buyer at its sole discretion. An agreement will be deemed to have been concluded after VGE International has confirmed an order placed by the Buyer, or has commenced the execution of that order.
- 1.2 All offers of VGE International are valid for a maximum of 30 calendar days.
- 1.3 In the event that an agreement is concluded by e-mail, an agreement may be concluded without VGE International having to fulfill any conditions provided by law pertaining to electronic communication and/or electronic conclusion of agreements.
- 1.4 The Buyer will be entitled to cancel an order only after receiving written consent from VGE International, which consent may be made subject to conditions as deemed appropriate by VGE International.

2. Delivery

- 2.1 Unless otherwise agreed in writing, the goods will be delivered Ex Works, Incoterms 2010 or, if any, a more recent version of the Incoterms. The Buyer will be obliged to take delivery of the goods upon VGE International's request.
- 2.2 Any delivery times quoted or agreed on by VGE International may not be considered to be firm deadlines, unless explicitly agreed otherwise in writing between the parties. In the event of late delivery, VGE International must be declared to be in default in writing, in which connection VGE International will be granted a reasonable term of at least 14 calendar days as of the date of the receipt of notification to fulfill its obligations. In the event that such extended term is exceeded, the Buyer will be entitled to dissolve the agreement or part of the agreement only with respect to the goods not delivered. In such an event, VGE International will not be liable to pay damages, unless such damages are the consequence of gross negligence or willful misconduct of VGE International's executive management.
- 2.3 VGE International is entitled to deliver and invoice the goods in installments, unless the goods in question do not have any stand-alone value in VGE International's opinion.
- 2.4 If at the request of Buyer VGE International holds a specified stock of goods that the Buyer can order on demand, the Buyer will order such goods within 6 months from the date of the Buyer's request to keep such goods in stock. If the Buyer fails to do so, he will nevertheless be liable to pay the purchase price. Unless agreed otherwise the delivery time for goods that are available on demand is 15 working days from the day of the order.
- 2.5 The Buyer is obliged to accept delivery of the goods upon VGE International's request. If Buyer fails to accept delivery, the Buyer will be liable for all costs and damages resulting therefrom, including but not limited to the costs of storing and re-delivering the goods.
- 2.6 VGE International will be entitled to charge the costs of any packaging separately. The packaging will not be taken back. Should VGE International, however, be obliged by law or any regulations to take packaging back, any costs related to taking back or processing packaging will be borne by the Buyer.

3. Price and Payment

- 3.1 Unless explicitly agreed otherwise in writing, all prices are quoted exclusive of VAT, transport and insurance costs and all other costs. A quoted or agreed price is valid for one order only, unless the parties have explicitly agreed otherwise in writing.
- 3.2 VGE International will be entitled to adjust prices agreed upon before delivery in the event of increases in cost-determining factors such as fluctuations in exchange rates, raw materials, labor costs or in the event of government measures, provided that such increases or measures occurred after the conclusion of the agreement but before delivery.
- 3.3 Unless explicitly agreed otherwise in writing, the Buyer will pay the entire purchase price in advance upon placement of an order, in euros and by transfer to or deposit into an account indicated by VGE International, without any deduction, discount or set-off. Submission of a complaint will not suspend the Buyer's obligation to pay.
- 3.4 If the Buyer fails to timely make a payment in accordance with article 3.3, the Buyer will be in default and all claims of VGE International will become fully due and payable immediately, without prejudice to any other rights that VGE International may have by under these terms and conditions or the law.
- 3.5 If at any time VGE International has doubts as to the Buyer's creditworthiness, VGE International will have the right, before commencing or continuing its obligations, to require the Buyer to provide adequate security in the amount of the sums which are or will be owed to VGE International by the Buyer, whether or not immediately payable, under the agreement, all at VGE International's discretion.
- 3.6 In the event of untimely payment, VGE International will be entitled to compensation of all extra-judicial costs, including but not limited to costs involved in sending reminders, one or more notices of default or demand notices, which extra-judicial costs will amount to at least 15% of the total amount payable, subject to a minimum of EUR 500, without prejudice to any other rights that VGE International may have by virtue of these terms and conditions or the law.
- 3.7 In the event that VGE International is fully or largely successful in legal proceedings against the Buyer, the Buyer will be obliged to compensate all costs incurred by VGE International in connection with such proceedings, even to the extent that such costs exceed the cost award made by the court. VGE International may invoke this clause irrespective of whether the Buyer has appealed against the relevant judgment at the court of appeal or the Supreme Court.

4. Retention of title

- 4.1 VGE International will retain title to all goods delivered and to be delivered to the Buyer until full payment of all purchase amounts has been received, as well as any amounts owed by the Buyer pertaining to work performed by VGE International in connection with such purchase agreements and any claims pursuant to any failure in the performance of such agreements on the part of the Buyer.
- 4.2 The Buyer will be obliged to store the goods delivered under retention of title with due care, ensuring that they are recognizable as the property of VGE International. In addition, it will be obliged to insure such goods against, inter alia, fire and water damage and theft. The Buyer will pledge to VGE International any claims it has pursuant to such insurance policies upon VGE International's first request, as additional security with respect to VGE International's claims against the Buyer.
- 4.3 In the event that the Buyer fails in the performance of any obligation vis-à-vis VGE International, or in the event that VGE International has good reason to fear that the Buyer will fail in the performance of its obligations, VGE International will be entitled to recover the goods delivered under retention of title or to have such recovered, even when the goods have to be detached. The Buyer will cooperate accordingly. The Buyer will bear the costs of recovery, without prejudice to VGE International's right to further damages.

5. Characteristics of Goods

- 5.1 The goods will comply with any specifications explicitly agreed upon in writing and be free from defects in material and workmanship under normal use consistent with VGE International's instructions for a period of 12 months from delivery to the Buyer.
- 5.2 Any and all images and specifications of goods in catalogues, price lists, advertisements, etc. and any samples of the goods must be deemed to be representations by approximation only, unless VGE International has explicitly indicated the contrary in writing with regard to a specific delivery.
- 5.3 If the goods are intended to be used in a country outside the Netherlands, VGE International is not

responsible to ensure that the goods comply within any laws and other requirements applicable in such other country, unless the parties have (i) explicitly agreed otherwise in writing and (ii) the Buyer has correctly informed VGE International on the exact content of such requirements.

- 5.4 VGE International is at all times entitled to effect adjustments in the goods to be delivered, in order to improve them or comply with government regulations.
 - 5.5 VGE International has no obligation and Buyer shall have no rights in relation to any characteristics and/or performance of the goods other than the characteristics and the performance that are applicable or agreed pursuant to this article 5.
- ### 6. Complaints and Inspection
- 6.1 The goods delivered must be checked by or for the Buyer upon delivery with respect to numbers and visible defects and any shortages or visible defects must be reported to VGE International within 3 working days after delivery. The Buyer must report defects not visible upon delivery within 3 working days of their discovery, though in any event within 3 working days after the time that the Buyer should reasonably have discovered them.
 - 6.2 The Buyer will be obliged to perform the inspection or to have the inspection performed with due care, upon receipt of the goods. The Buyer will bear the risk for inspecting the goods by means of random checks and may not rely on the fact that it did not observe a defect that was visible and could have been discovered upon delivery because it—or a third party engaged by it—did not inspect the entire shipment.
 - 6.3 In the event that a good does not comply with article 5 of these conditions, VGE International will only be obliged—to be decided at the VGE International's discretion—to repair the defect, to replace the relevant good or to credit or refund the amount charged in connection with the defective good in whole or in part, according to its own reasonable judgment and to the exclusion of any other rights of the Buyer by law.
 - 6.4 The Buyer will not be entitled to any claim if the non-compliance with article 5 cannot be attributed to VGE International, e.g. results from any transport, incorrect operation, installation, storage or maintenance by the Buyer or a third party.
 - 6.5 Any and all claims for payment of an amount of money and/or repair of the relevant good and/or replacement of the good and/or supply of any missing part, on whatever basis, as well as any right to dissolve the agreement will lapse at the earliest of the following times: a) upon late reporting pursuant to article 6.1 or b) 12 months after the delivery date.
- ### 7. Liability
- 7.1 Without prejudice to article 2.2, any liability on the part of VGE International on the basis of an attributable failure with respect to an agreement concluded with the Buyer will be restricted to the provisions laid down in article 6.3.
 - 7.2 VGE International will assume no liability with respect to damage as a consequence of or related to any errors or omissions in advice rendered by it, nor will it assume any liability with respect to damage as a consequence of or related to errors or omissions in the processing instructions recommended by it.
 - 7.3 Without prejudice to article 7.1, VGE International will not—irrespective of the legal basis of the Buyer's claim—be liable for any consequential damages, including but not limited to losses due to delays or loss of data, lost profits and penalties forfeited by the Buyer.
 - 7.4 The above-mentioned restrictions with respect to liability will not apply in the event that the damage is the consequence of gross negligence or willful misconduct on the part of VGE International's executive management.
 - 7.5 The Buyer will indemnify VGE International against any damage resulting from claims by third parties in connection with goods supplied by VGE International.
- ### 8. Force majeure
- 8.1 If VGE International fails in the performance of its obligations due to an event of force majeure, it will not be liable. To the extent that the circumstance making performance impossible is not of a permanent nature, VGE International's obligations will be suspended. In the event that the period during which performance is not possible due to force majeure exceeds 2 months or is expected to exceed 2 months, both parties will be entitled to cancel the agreement, without any obligation to pay the damages that may arise as a result.
 - 8.2 In the event that VGE International has already partially fulfilled its obligations upon the occurrence of the situation of force majeure, or is only able to fulfill its obligations in part, it will be entitled to separately invoice the part already supplied or the part that can still be supplied and the Buyer will be obliged to pay that invoice as if it pertained to a separate agreement.
 - 8.3 A situation of force majeure affecting VGE International within the meaning of this article will be deemed to have occurred in the event of, inter alia, strikes, a shortage of raw materials, delay, transport problems, war or threat of war, full or partial mobilization, riots, sabotage, floods, fire or other forms of destruction within VGE International's company, lockouts and industrial actions, breakdowns of machines or tools or other breakdowns within VGE International's company. A situation of force majeure must also be deemed to have occurred on the part of VGE International in the event that one or more of the above-mentioned circumstances occurs within the companies of VGE International's suppliers and as a consequence VGE International cannot or could not perform its obligations, or cannot or could not perform such in good time.
- ### 9. Suspension and dissolution
- Without prejudice to VGE International's rights under these terms and conditions or under the law, VGE International will at any event be entitled to suspend (further) performance or to dissolve any agreement concluded with the Buyer, in whole or in part, if (i) any goods made available by VGE International to the Buyer become subject to attachment, (ii) the Buyer is granted a suspension of payments or is declared bankrupt, (iii) any permits or licenses required for the performance of the agreement are withdrawn, (iv) the Buyer fails to fulfill one or more of its obligations ensuing from any agreement with VGE International, (v) VGE International has sound reasons to believe that the Buyer is or will be unable to fulfill its obligations under any agreement, or (vi) the Buyer ceases its business or if a change occurs in the control of that business. Any right of the Buyer to suspend performance is hereby excluded.
- ### 10. Applicable law and dispute resolution
- 10.1 These terms and conditions and all quotations from and agreements with VGE International will be governed by Dutch law. The UN Convention on Contracts for the International Sale of Goods ("CISG") does not apply.
 - 10.2 In the event that the Buyer is domiciled in a Member State of the European Union or in Norway, Switzerland or Iceland at the time that proceedings are commenced, any and all disputes relating to these terms and conditions and/or any quotations or agreements to which these terms and conditions are applicable will exclusively be settled by the competent court in Amsterdam, the Netherlands. The above will not affect VGE International's right to submit a dispute to the court that would be competent in the absence of this provision.

In the event that the Buyer is not domiciled in a Member State of the European Union or in Norway, Switzerland or Iceland upon the commencement of proceedings, any and all disputes relating to these terms and conditions and/or any quotations or agreements to which these terms and conditions are applicable will exclusively be settled in accordance with the rules of the Netherlands Arbitration Institute [Nederlands Arbitrage Instituut, or NAI]. Arbitration will take place in Amsterdam, the Netherlands. The case will be submitted to three arbitrators and the arbitration proceedings will be conducted in Dutch.



VGE International BV
Ekkersrijt 4304
5692 DH Son & Breugel (Eindhoven),
The Netherlands

T: +31 (0) 499 461099
W: www.vgebv.nl
E: info@vgebv.nl