

VGE Pro UV HDPE LP systems

VGED009-GB205



VGE Pro HDPE 600-225

The VGE Pro LP product series consists of a complete range of industrial UV-C disinfection systems that can treat water from 0.5 m³/h to 550 m³/h per system. In addition to a basis of reliable and efficient water disinfection, the VGE Pro HDPE range offers corrosion free irradiation chambers, SPT lamp connection and mounting, amalgam lamps with a service life of 16,000 hours and the possibility for systems according to customer specifications.

In addition to various irradiation chamber designs such as the U and Z design, there is also a choice of different control panels that are all equipped with electronic lamp power supplies. The following versions of control panels are available:

- **Basic**, simple on/off control of the lamp drivers (Basic B: with lamp status);
- **Control Timer**, as the Basic with digital LED remaining lamp life counter;
- **Control Monitor**, colour display, hours counter, flow switch input. Optional UV sensor with limit control/signalling and 4-20 mA UV output signal;
- **Control Monitor Plus**, as the Control Monitor with lamp status indication, remote on/off input. Optional water temperature sensor with limit control/signalling.



Control Monitor Plus control panel

Advantages VGE Pro LP product series

- RVS 316L or HDPE irradiation chambers;
- Visual lamp function control on the irradiation chamber;
- Smart Pin Technology (SPT) for easy and safe lamp replacement;
- Low pressure (LP) amalgam UV lamps with a lamp life of 16,000 hours;
- Possibility of customer-specific adjustments.

VGE Pro UV HDPE LP product and application overview

Model	Shape	Max. pressure	Capacity ⁽¹⁾	Number of lamps	Power consumption	Water quality ⁽³⁾		
		[bar]	[m ³ /h]		[kW]	good	medium	bad
75-110	U	6	10	1 x 75 W	0,08	✓	✓	
140-110	U	6	17	1 x 140 W	0,16	✓	✓	
200-110	U	6	23	1 x 200 W	0,23	✓	✓	
200-160	U	6	35	1 x 200 W	0,23	✓	✓	
400-200	U	6	83	2 x 200 W	0,45	✓		
600-225	U	6	124	3 x 200 W	0,68	✓		
975-315	U	4	278	3 x 325 W	1,11	✓		
1950-315	U	4	544	6 x 325 W	2,21	✓	✓	

Power supply voltage for all models: 1/N/PE, 230 Vac, 50/60 Hz

⁽¹⁾ Capacity based on 400 J/m², T_{10mm} @ 254 nm = 98 %, MPSSM-average intensity (max. flow speed of 3 m/s not included)

⁽²⁾ Water quality based on water transmittance, T_{10mm} @ 254 nm: Good = 100 % - 80 %, Medium = 80 % - 50 %, Bad < 50 %

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VGE Pro UV HDPE LP irradiation chamber dimensions

VGE Pro UV HDPE				Dimensions														
Type	Figure	Weight dry	Weight wet	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
		[kg]	[kg]															
75-110	1	4	9	85	685	85	110	855	60	905	2" BSP male	109	1/2" BSP female	65	65	181	105	-
140-110	1	4	9	85	685	85	110	855	60	905	2" BSP male	109	1/2" BSP female	65	65	181	105	-
200-110	1	4	11	85	930	85	110	1100	60	1150	2" BSP male	109	1/2" BSP female	65	65	181	105	-
200-160	2	8	23	100	900	100	160	1100	60	1150	DN65	109	1/2" BSP female	65	185	276	175	1/4" BSP female
400-200	2	15	38	125	850	125	200	1100	60	1150	DN100	109	1/2" BSP female	65	220	316	195	1/4" BSP female
600-225	2	18	48	125	850	125	225	1100	60	1150	DN125	109	1/2" BSP female	65	250	351	218	1/4" BSP female
975-315	3	82	175	229	1125	230	315	1584	60	1635	DN250	109	1/2" BSP female	104	395	478	300	1/4" BSP female
1950-315	3	85	176	229	1125	230	315	1584	60	1635	DN250	109	1/2" BSP female	104	395	478	300	1/4" BSP female

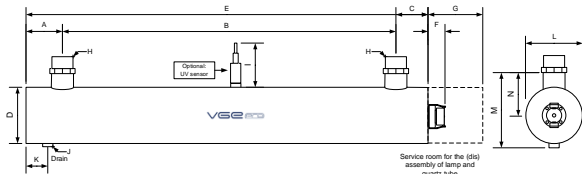


Figure 1

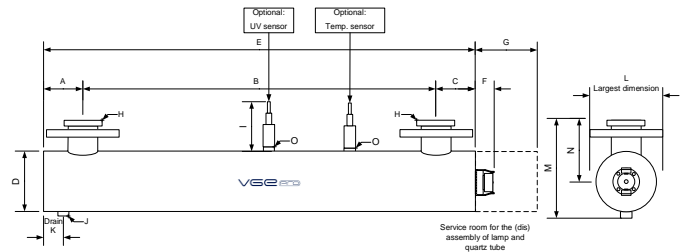


Figure 2

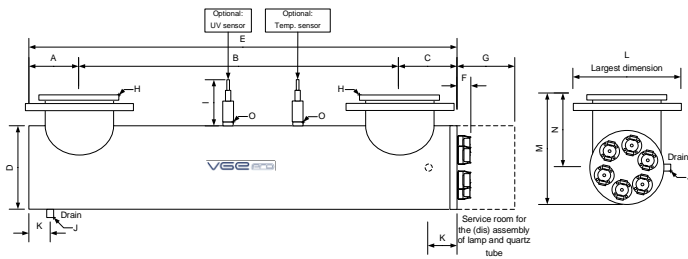


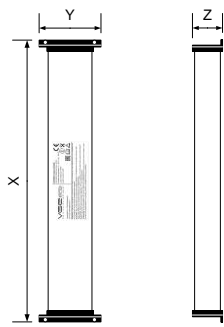
Figure 3

VGE Pro UV HDPE LP systems

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VGE Pro UV HDPE LP available and dimensions control panels (height x width x depth, X x Y x Z)

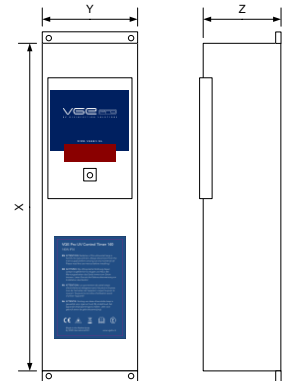
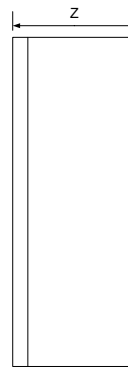
Type	Basic			Control Timer		Control Monitor		Control Monitor Plus		
	[mm]	model	[kg]	[mm]	[kg]	[mm]	[kg]	[mm]	[kg]	
HDPE	75-110	340 x 75 x 35	A	1,1	350 x 100 x 180	1,4	300 x 295 x 110	2,9	-	-
	140-110	640 x 75 x 35	A	2,0	350 x 100 x 180	1,2	300 x 295 x 110	2,7	400 x 300 x 160	8,3
	200-110	340 x 150 x 125	B	-	-	-	300 x 295 x 110	3,1	400 x 300 x 160	8,3
	200-160	340 x 150 x 125	B	-	-	-	300 x 295 x 110	3,1	400 x 300 x 160	8,3
	400-200	378 x 278 x 180	B	-	-	-	-	-	450 x 300 x 210	10,6
	600-225	558 x 378 x 180	B	-	-	-	-	-	450 x 300 x 210	10,6
	975-315	-	-	-	-	-	-	-	600 x 400 x 400	29,5
	1950-315	-	-	-	-	-	-	-	600 x 400 x 400	32,5



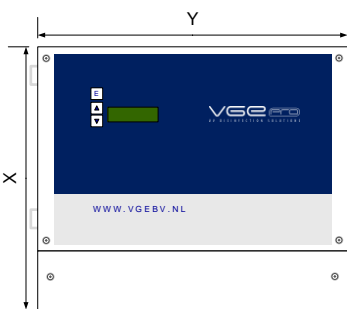
Basic A



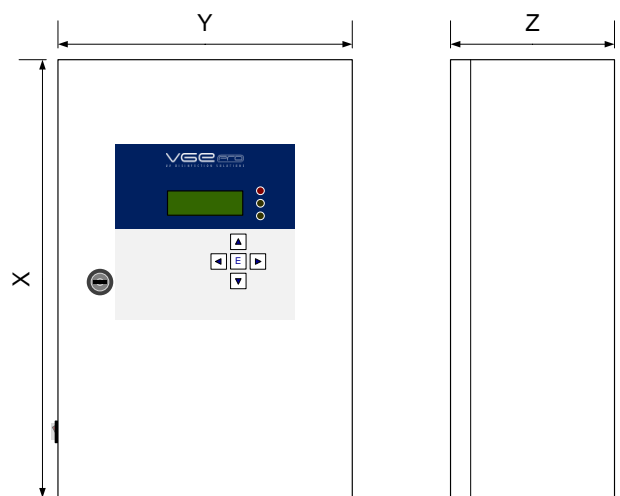
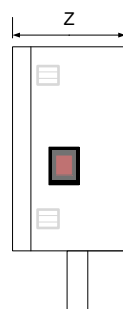
Basic B



Control Timer



Control Monitor



Control Monitor Plus