

We UVCare...

Application Optimised UV for Drinking Water



PROLINE PQ IL DVGW



Certified UV treatment for drinking water

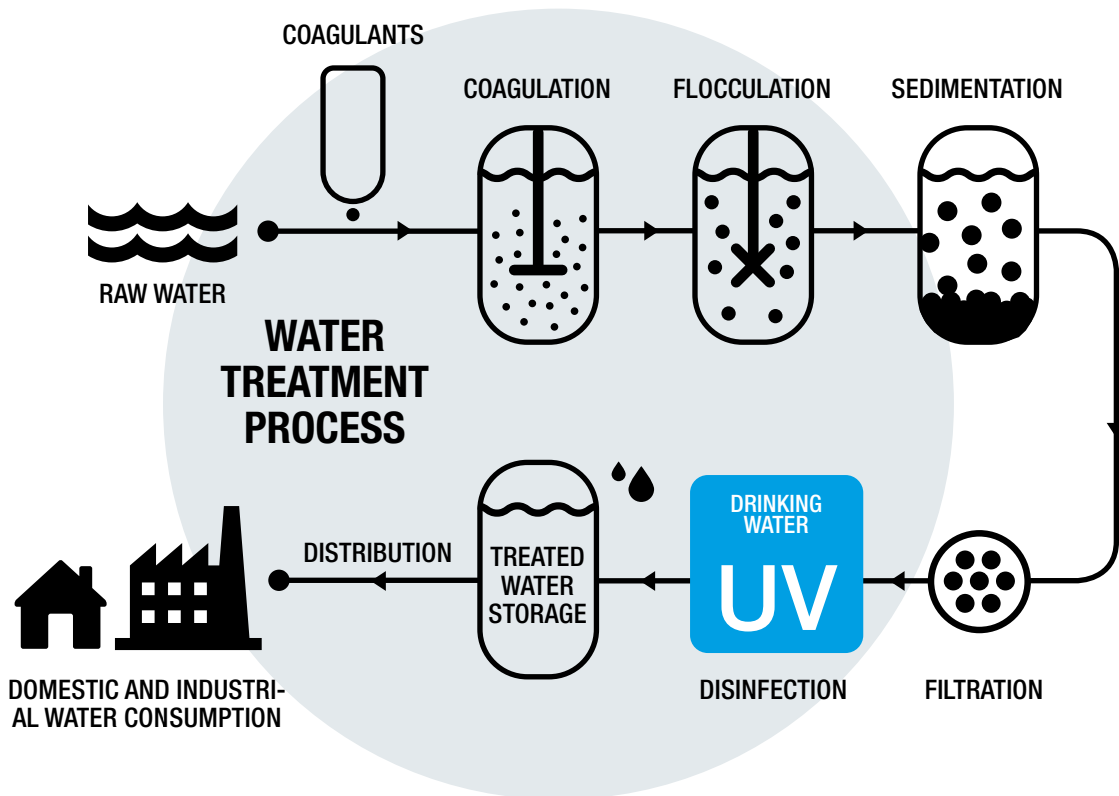
Our ProLine PQ IL DVGW systems are aimed specifically at providing third party certified UV disinfection for municipal drinking water. By using a third party certified UV system you can be certain that the UV dose being produced will disinfect the water, eliminate harmful micro-organisms, reduce the bio-burden, protect against bio-fouling and lower operating costs. Each system comes with a certified dry UV sensor allowing checking of UV performance. The UV sensor measures the germicidal output of the UV system and a UV dose read out makes it easy to monitor and log performance. The control system also has the ability to take flow and transmittance meter inputs and calculate the UV dose based on real time operating conditions.

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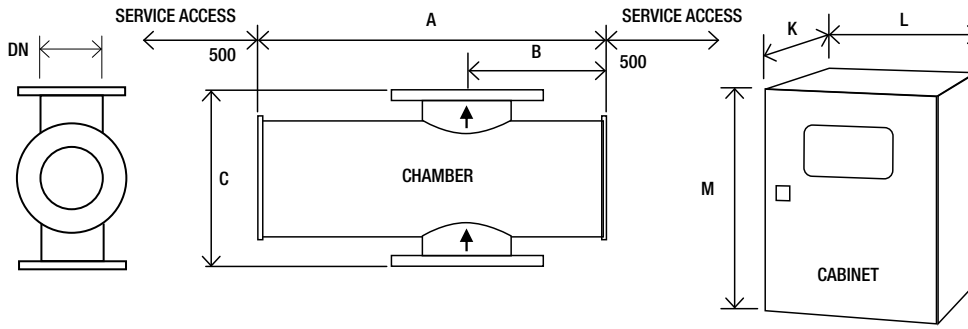
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aquionics

Potential locations of the ProLine PQ IL DVGW™ in drinking water treatment process



KEY FEATURES	WHAT IT GIVES YOU	BENEFITS FOR YOU
INTELLIGENCE		
Dry DVGW approved UV sensor measuring germicidal wavelengths	Continuous verification of performance and in-built low dose warning	Easy to monitor and log system performance
Flow meter input	UV Intensity monitoring based on actual process conditions when meters are connected	Accurate UV intensity reading guaranteed under wide range of operating conditions
OPTIMISATION		
DVGW certified UV systems	UV system dose equations and sizing have been independently derived	Confidence the system will perform as stated
UV water disinfection	Protects your drinking water from microbiological contamination including chlorine resistant <i>Cryptosporidium</i> and <i>Giardia</i>	Does not affect taste and odour No chemicals
Designed for treatment of drinking water	FDA-approved materials used for all wetted parts	Industry compliant materials
	Flanged connections, high standard internal finish	Designed to international standards
	Automatic wiper (quartz cleaning)	Self cleaning to maintain performance
INTEGRATION		
Compact design	Can be retrofitted to existing process	Easy integration



* Allow dimension L in front of cabinet for door opening and panel access.
 ** M dimension includes the space for the cabinet mounting brackets but you need to allow space below the cabinet for cable entry and access (minimum of 250 mm).
 *** CC: Control cabinet, PC: Power cabinet
 a Attention: the optional cabinet with A/C is bigger. Ask for dimensions.
 All dimensions are approximate for clearance purposes only. We have a policy of continuous product development, exact drawings are available on request. All specifications are subject to change without notification. Your distributor or our account manager can advise on correct sizing and specification requirements.

Model Number	Max. power (kW)	No of lamps	Dimensions (mm)					Cabinet (fan cooled) ^a		Approx weight (Kg)		
			A	B	C	DN	Cab. No***	K*	L	M**	Chamber Empty	Cabinet Fan cooled
ProLine PQ IL DVGW 100	1.8	2	780	310	400	100	1	300	800	1000	42	50
ProLine PQ IL DVGW 200	2.9	1	780	310	400	150	1	300	800	1000	50	55
ProLine PQ IL DVGW 450	5.6	2	780	310	400	200	1	300	1000	1200	78	80
ProLine PQ IL DVGW 1000	11.0	4	780	310	400	200	1	300	1000	1200	78	100
ProLine PQ IL DVGW 4000	17.5	4	896	368	550	350	1	600	1000	2100	150	180
ProLine PQ IL DVGW 5000	34.8	8	896	368	550	350	1	600	1200	2100	150	230

UV CHAMBER	
Material:	StSt 316L / 1.4404
Internal finish:	< 0.8 µm Ra, welds ground out, electropolished and passivated
External finish:	Brushed to K280, electropolished and passivated
Process (mating) connections:	Flange EN 1092-1 PN10
Drain connection:	BSP Socket or NPT if ANSI flange
Air vent connection:	BSP Socket or NPT if ANSI flange
End plate:	Removable end plate
Degree of protection:	IP54 equivalent to NEMA 12
Wiper:	Automatic (electrically driven)
Arc tube (lamp):	Medium pressure
Arc tube enclosure:	Doped quartz (F240)
Number of arc tubes (lamps):	See table above
Expected lamp life:	12000 hours
Temperature sensor:	Yes
UV sensor:	Dry DVGW compliant UV sensor
Working fluid temperature:	1°C to 60°C
Hydrostatically pressure tested:	Yes
Chamber mounting:	Flow horizontal or vertical (lamps horizontal only)
Operating pressure:	6 bar (positive pressure only)
Seals:	EPDM, ADI free, EC 1935/2004, FDA 21 CFR 177.2600 approved

OPTIONS	
Document Support Pack	
Cabinet: Stainless steel 304	
Cabinet: Stainless steel 304 with air conditioning (5°-50°C), IP66 (NEMA 4X), relative humidity <95% non condensing*	
Cabinet: Stainless steel 316 with air conditioning with slooping roof (5°-50°C), IP66 (NEMA 4X), relative humidity <95% non condensing*	
Operation and Maintenance manual and printed Installation and Commissioning manual in Chinese, English, French, German & Spanish	
Flange options: PN16, ANSI 150, JIS, Table 'E'	
Lead length: 20 and 29 m	
In-field UV reference sensor kit	
Water leak detection: Detects water leaks from quartz sleeve	
Water level sensor: UV chamber full water detection	
UL 508A shop approval	
Welder pack	
Operating pressure: 10 Bar	

* See sales drawings for dimensions

CABINET (CONTROLLER UVTRONIC)	
Material:	Polyester coated carbon steel, RAL 7035
Degree of protection:	IP54 (NEMA 12)
Supply voltages:	PQ IL DVGW 100-1000: 200-277V (+/-10%), (2ph L1,L2 or 1ph L1+N) PQ IL DVGW 4000-5000: 380-480V (-5% to +10%), (3ph L1, L2, L3), 50/60 Hz
Operating temperature range:	5°C to 35°C
Relative humidity:	<85% non-condensing
Cooling fans:	Yes
Interconnecting cable:	10 m
Variable power:	Stepless variable power (70% reduction from maximum ballast power)

HMI / CONTROL	
Display:	4 line LCD, indicating system status including alarms
Operating menu:	3 levels (2 with password protection)
Fault finding:	Event log

CUSTOMER OUTPUTS	
4-20 mA passive output:	UV intensity, ballast power
VFC outputs:	Standby in remote, system standby, system cooling down, any trip, any warning, UV intensity failure, system ready, wiper failure, lamp failure, water leak, water temperature warning, water & cabinet temperature alarm

CUSTOMER INPUTS	
4-20 mA active or passive inputs:	Flow meter
VFC inputs:	Remote stop/start, remote clear message, remote wipe, remote set power high

CUSTOMER COMMUNICATIONS PORT	
Modbus RS 485 serial RTU for SCADA connection	

APPROVALS	
CE marked, DVGW certified	



PROLINE PQ IL DVGW

Also available in our Drinking Water product range...



PROLINE PQ AF

Small community, low energy amalgam range with USEPA validation



PROLINE PQ AL

Small to mid-sized community, low energy multi-lamp amalgam range with USEPA validation and built in UVT compensation



PROLINE PQ EO

Energy Optimised medium pressure range, USPA validated with built-in UVT compensation



PROLINE PQ IL

Compact medium pressure range with USEPA validation, for use where space is tight in small to mid-sized communities



www.weuvcare.com

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