

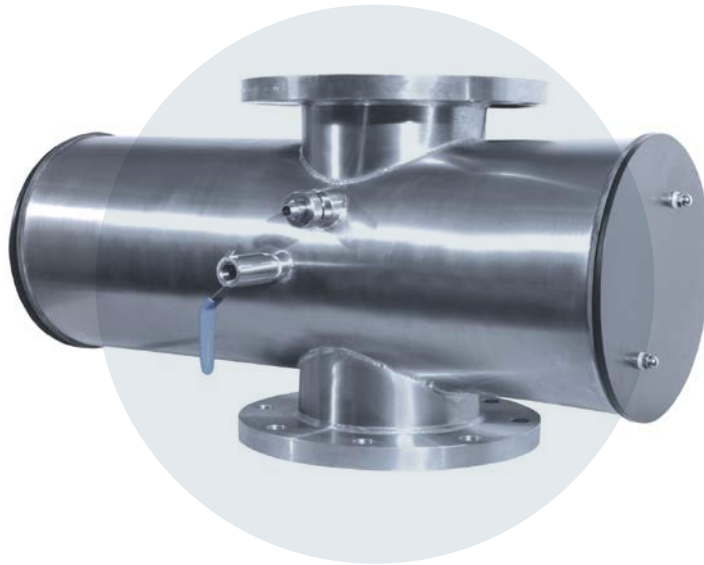
We UVCare...



PROLINE PQ IL DVGW

Application Optimised UV for Drinking Water

RODEM[®]
SMART SANITARY PROCESSES
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Certified UV treatment for drinking water

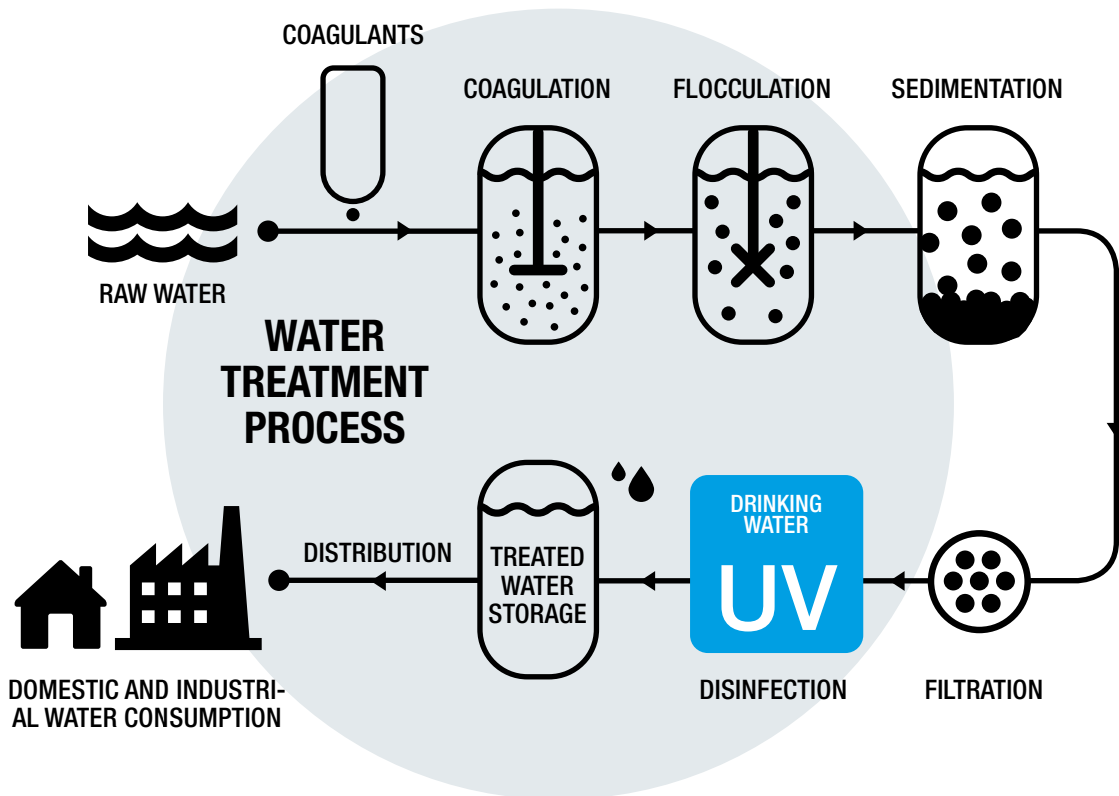
Our ProLine PQ IL DVGW systems are aimed specifically at providing third party certified UV disinfection for municipal drinking water. By using a third party certified UV system you can be certain that the UV dose being produced will disinfect the water, eliminate harmful micro-organisms, reduce the 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.

berson

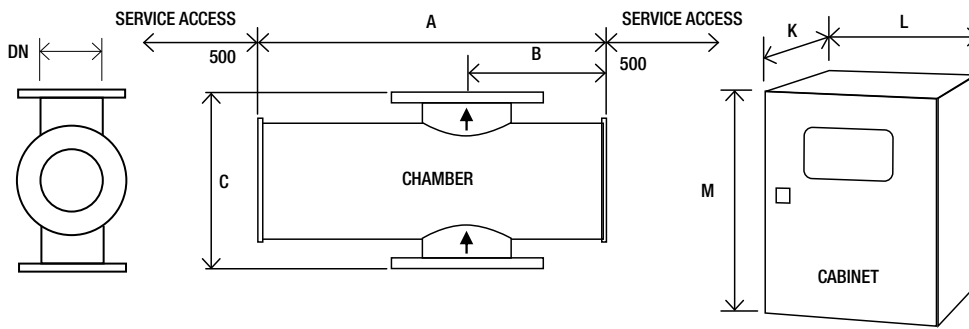
hanovia

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.

| | | | Dimensions (mm) | | | | | | | | Approx weight (Kg) | |
|--------------------------|-----------------|-------------|-----------------|-----|-----|-----|-------|-----------------------------------|------|------|--------------------|------------|
| | | | Chamber | | | | Cab. | Cabinet (fan cooled) ^a | | | Chamber | Cabinet |
| Model Number | Max. power (kW) | No of lamps | A | B | C | DN | No*** | K* | L | M** | Empty | 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 |
| ProLine PQ IL DVGW 15000 | 52.0 | 12 | 1052 | 446 | 680 | 500 | 1 CC | 400 | 600 | 2000 | 240 | 130 |
| | | | | | | | 1 PC | 1200 | 600 | 2100 | | 310 |

| 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 4000-15000: 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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