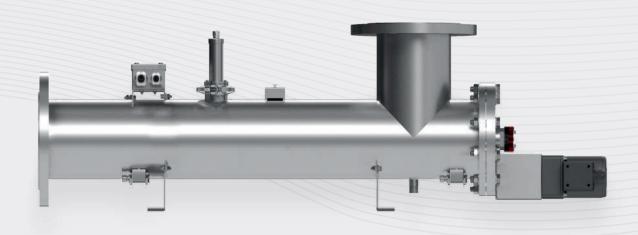


formerly Aquionics, Berson, Hanovia and Orca GmbH



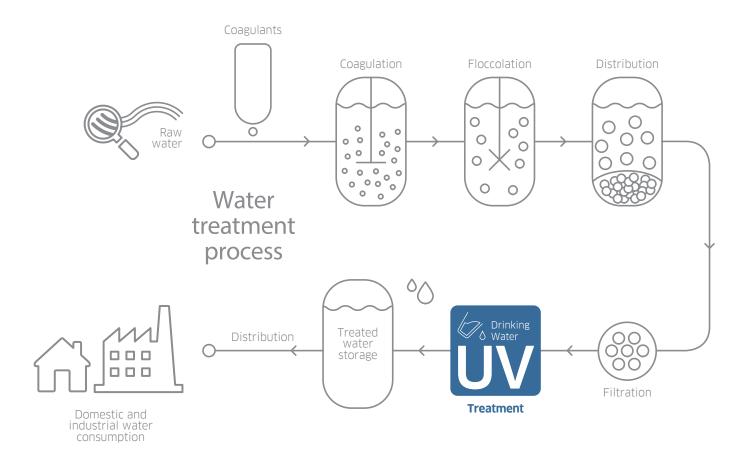
ProLine PQ EO

VALIDATED UV TREATMENT FOR DRINKING WATER Our **ProLine PQ EO** UV systems are designed to provide third party validated UV treatment for drinking water. At low doses, UV provides protection against chlorine resistant pathogens such as Cryptosporidium and Giardia. At higher doses, UV provides general treatment and virus protection.

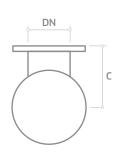
Integrating an innovative single medium pressure lamp chamber with sensors and intelligent control, each system comes with a certified dry UV sensor that measures.

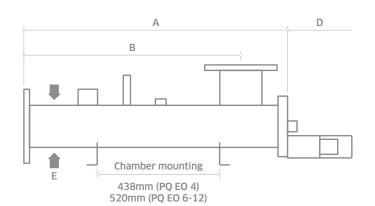


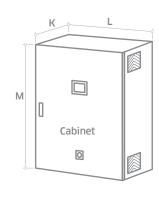
POTENTIAL LOCATION OF THE PROLINE PQ EO™ IN DRINKING WATER TREATMENT PROCESS



KEY FEATURES	WHAT IT GIVES YOU	BENEFITS FOR YOU				
INTELLIGENCE						
UV sensor	Continuous verification of performance with in-built low UV dose alarm	Easy to monitor and log system performance				
UVGuard™ on UV sensor window	Protects against UV exposure when checking a UV duty sensor with a reference sensor while the system is operating	Ability to safely audit the UV performance without interrupting operation				
Flow and UV transmittance (UVT) meter inputs	Stepless adjustment of lamp power based on real time operating conditions	Optimised use of energy, saving operating costs				
OPTIMISATION						
Third party validated UV systems tested in accordance with the USEPA UV Disinfection Guidance Manual	UV system dose equations and sizing have been independently derived	Confidence the system will perform as stated				
ngle medium pressure lamp	Provides active wavelengths to treat your drinking	Does not affect taste and odour				
	water	No chemicals				
	High treatment capacity with a single lamp	Compact footprint and reduced operating cost				
Innovative chamber design	Maximises the water's exposure to UV light	Reduces energy costs				
Designed for treatment of drinking water	Flanged connections	Designed to international standards				
	FDA and EC approved seals	Industry compliant materials				
	Automatic wiper	Self cleaning to maintain performance				
INTEGRATION						
Designed for your process	*Skid mountable	Easy to install				
	*UVShield™ power cut-out for lamp access	Enhanced operator safety when changing a lamp				
	*Water leak detection	Increased product safety				
	RS 485 Industrial Ethernet	Easy integration to SCADA or plant control systems				
*Option						







MODEL NUMBER	MAX POWER (KW)	MIN T10(%)	DIMENS	DIMENSIONS (MM)					APPROX WEIGHT (K			IT (KG)						
	Starting		Chamber			Control Cabinet (fan cooled) (with A/C)					Chamber	Control Cabinet						
			Unwiped A		В	С	D	E	DN	K*	L	M**	K*	L	M**	(Empty)	Fan cooled	With A/C
ProLine PQ EO 4	4.5	80	1009	1232	823	165	900	114	100	400	800	1200	400	1250	1200	30	96	120
ProLine PQ EO 6	4.5	80	1035	1286	850	245	950	168	150	400	800	1200	400	1250	1200	44	96	120
ProLine PQ EO 8	4.5	80	1110	1361	875	320	1000	210	200	400	800	1200	400	1250	1200	65	96	120
ProLine PQ EO 10	4.5	80	1190	1441	903	430	1100	273	250	400	800	1200	400	1250	1200	96	96	120
ProLine PQ EO 12	6.8	80	1430	1685	1093	475	1325	324	300	400	800	1200	400	1250	1200	145	96	120

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.

* Allow dimension L in front of cabinet for door opening and panel access.

RS 485:

APPROVALS

CE marked, USEPA (UVDGM)

UV CHAMBER	
Material:	StSt 316L / 1.4404
Internal finish:	As made pipe and tube, welds as laid, electropolished and passivated
External finish:	BS EN 10088-2 or 10088-3, 1J or 2J and ASTM No. 4
Process (mating) connections:	Flange EN 1092-1 PN16
Drain connection:	BSPT
End plate:	Removable end plate
Degree of protection:	IP65 equivalent to NEMA 4 but not for outside use
Wiper:	Automatic (electrically driven)
Arc tube (lamp):	Medium pressure
Arc tube enclosure:	Doped quartz (F240)
Number of arc tubes (lamps):	1
Expected lamp life:	9000 hours
Temperature sensor:	Yes
UV sensor:	Calibrated DVGW compliant dry sensor with UVGuard™ sensor window
Working fluid temperature:	1°C to 60°C
Hydrostatically pressure tested:	Yes to PED requirements EN 13445
Chamber mounting:	Horizontal only
Operating pressure:	6 bar (positive pressure only)
Seals:	EPDM, ADI free, EC 1935/2004, FDA 21 CFR 177.2600 approved

	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 sloping 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 and Spanish
	Flange options: ANSI 150 (NPT drain), JIS, Table 'E'
	Lead length: 20 and 29 m
	Welder Document Pack for chamber construction
	Skid mounting (not shipboard or earthquake zone)
	Operating pressure: 10 bar or 16 bar

OPTION (CONTINUED)							
/ent valve: Manual valve, BSP/NPT (if ANSI flange)							
Aggressive water package: For 400 ppm to 20000 ppm chloride water							
Vater leak detection: Detects water leaking from the UV lamp enclosure							
JVShield™: Power cut-out for lamp access							
UL 508A In field UV reference sensor kit							
						CABINET (CONTROLLER UVTC	ABINET (CONTROLLER UVTOUCH™)
Material:	Polyester coated carbon steel						
Degree of protection:	IP55 / NEMA 12						
Supply voltages:	380 V to 480 V (-5% to +10%), 50/60 Hz						
Operating temp range:	5°C to 40°C						
Relative humidity:	<85% non-condensing						
Cooling fans:	Yes						
CABINET (GENERAL)							
Ballast power adjustment:	Stepless variable power (30 to 100% of maximum ballast rating)						
Interconnecting cable:	10 m cabinet to chamber						
CUSTOMER OUTPUTS							
4-20 mA passive outputs:	UV RED dose, UV intensity and chamber temperature						
VFC outputs:	Lamp ready (enable flow), system running, common warning, common trip, low dose warning, water leak detected, system in remote						
CUSTOMER INPUTS							
4-20 mA active or passive inputs:	Flow meter and transmittance meter						
VFC inputs:	Remote stop/start, remote reset, reduce power						
24 V dc pulsed inputs:	Start and stop						
CLISTOMER COMMUNICATIONS PORT							

Industrial Ethernet

^{**} 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).



ProLine PQ EO

Also available in our Drinking Water product range...

PROLINE PQ IL

PROLINE PQ AF

PROLINE PQ AL

PROLINE PQ IL DVGW

Compact medium pressure range with USEPA validation

Small community, low energy amalgam range with USEPA validation Small-mid sized region, low energy lamp amalgam range with USEPA validation UVT compensation Compact medium pressure range with DVGW certification

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