We UVCare...



Application Optimized UV for Drinking Water





Validated UV treatment for drinking water

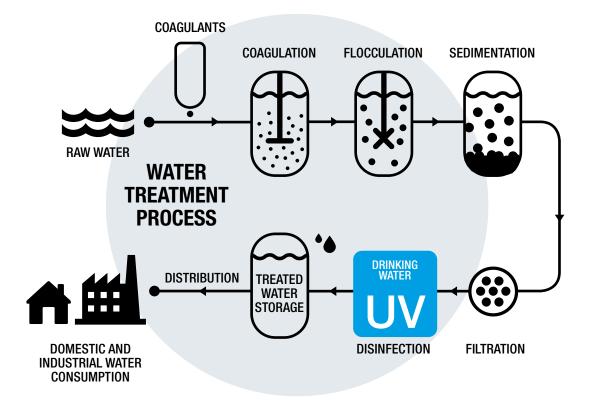
Our ProLine PQ IL systems are aimed specifically at providing USEPA third party validated UV disinfection for municipal drinking water. By using a USEPA third party validated UV system, you can be assured that the UV dose being produced will disinfect the water from harmful micro-organisms and lower operating costs. Each system comes with one certified dry UV sensor per lamp, 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.



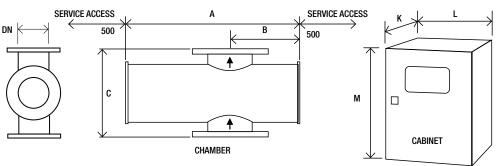




Potential location of the ProLine PQ IL™ in drinking water treatment process



KEY FEATURES	WHAT IT GIVES YOU	BENEFITS FOR YOU		
INTELLIGENCE				
Dry DVGW approved UV sensor measuring germicidal wavelengths	Continuous verification of performance with real time RED dose reading and in-built low dose warning	Easy to monitor and log system performance		
Flow and UV transmittance (UVT) meter inputs	Dose reading based on actual process conditions when meters are connected	Accurate UV dose reading guaranteed under wide range of operating conditions		
OPTIMIZATION				
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		
UV water disinfection	Protects your drinking water from microbiological contamination including	Does not affect taste and odour		
	chlorine resistant Cryptosporidium and Giardia	No chemicals		
Designed for the treatment of drinking water	NSF-61 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 9.8°).
CC. Control cabinet, PC: Power cabinet 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.

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			Dimensi	ions (Inch	es)						Approx wei	ght (lb)
			Chamber			Cab.	Cabinet (fan cooled) ^a			Chamber	Cabinet	
Model Number	Max. power (kW)	No of lamps	А	В	С	DN	No***	K*	L	M**	Empty	Fan cooled
ProLine PQ IL 450	5.6	2	30.7	12.2	15.7	8	1	11.8	39.4	47.2	172	176
ProLine PQ IL 1000	11	4	30.7	12.2	15.7	8	1	11.8	39.4	47.2	172	220
ProLine PQ IL 4000	17.5	4	35.3	14.5	21.7	14	1	23.6	39.4	82.7	331	397
ProLine PQ IL 4500	26	6	35.3	14.5	21.7	14	1	23.6	39.4	82.7	331	441
ProLine PQ IL 12000	39	6	41.4	17.6	26.8	20	1 CC	15.7	23.6	78.7	529	287
							1 PC	23.6	47.2	82.7		573
ProLine PQ IL 14000	52	8	41.4	17.6	26.8	20	1 CC	15.7	23.6	78.7	529	287
							1 PC	23.6	47.2	82.7		639

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:	ANSI 150#
Drain connection:	BSP or NPT if ANSI flange
Air vent connection:	BSP or NPT if ANSI flange
End plate:	Removable end plate
Degree of protection:	IP54 equivalent to NEMA 12
Wiper:	Automatic (electrically driven)
UV lamp:	Medium pressure
Quartz sleeve:	Doped quartz (F240)
Number of UV lamps:	See table above
Expected lamp life:	12,000 hours
Temperature sensor:	Yes
UV sensor:	Dry DVGW compliant UV sensor (one per lamp
Working fluid temperature:	33.8°F to 140°F
Hydrostatically pressure tested:	Yes
Chamber mounting:	Flow horizontal or vertical (lamps horizontal only
Operating pressure:	10 bar (positive pressure only)
Seals:	EPDM, ADI free, EC 1935/2004, FDA 21 CFf 177.2600 approved

OPTIONS				
Document Support Pack				
Cabinet material: Stainless steel 304				
Cabinet material: Stainless steel 304 with air conditioning (41-122°F), IP66 (NEMA 4x), relative humidity <95% non condensing*				
Cabinet material: Stainless steel 316 with air conditioning slooping roof (41-122°F), 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: 65.6 ft and 95.1 ft				
In-field UV reference sensor kit				
Bleed: valve with BSP connection or NPT if ANSI flange				
Water leak detection: Detects water leaks from quartz sleeve				
Water level sensor: UV chamber full water detection				

* See sales drawings for dimensions

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UL 508 A shop approval

Operating pressure: Higher pressure available upon request (Brian: 10 bar)

Allen Bradley AB850 & UV Touch HMI (Brian: UVtronic)

Welder pack

CABINET (CONTROLLER UV	TRONIC)
Material:	Polyester coated carbon steel, RAL 7035
Degree of protection:	IP54 (NEMA 12)
Supply voltages:	PQ IL 450-1000: 200-277 V (+/- 10%) (2ph L1,L2 or 1ph L1+N) PQ IL 4000-14000: 380-480 V (-5 to +10%) (3ph L1, L2, L3) 50/60 Hz
Operating temperature range:	41°F to 95°F
Relative humidity:	<85% non-condensing
Cooling fans:	Yes
Interconnecting cable:	32.8 ft
Variable power:	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 dose, UV intensity, ballast power
VFC outputs:	Standby in remote, system standby, system cooling down, any trip, any warning, UV dose failure, system ready, wiper failure, lamp failure, water leak, water temperature warning, Full water detection, water & cabinet temperature alarm
CUSTOMER INPUTS	

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

Flow meter and UVT transmittance meter

Modbus RS 485 serial RTU for SCADA connection

CE marked, USEPA (UVDGM), NSF 61



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 Optimized medium pressure range, USEPA validated with built in UVT compensation



PROLINE PQ IL DVGW

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







www.weuvcare.com

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