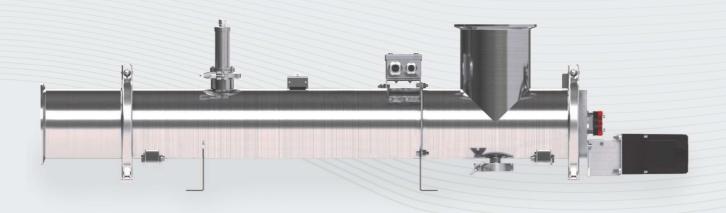


formerly Aquionics, Berson, Hanovia and Orca GmbH



PureLine PQ EO H+

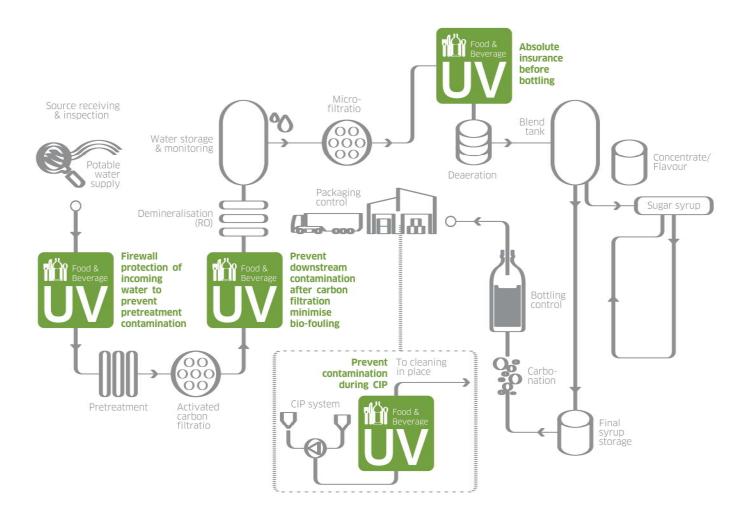
BIOASSAYED UV TREATMENT FOR FOOD & BEVERAGE

Our PureLine PQ EO H+ UV systems are aimed specifi ally at providing third party bioassayed UV for product and process waters used in the food and beverage industry. Integrating innovative single medium pressure lamp chamber with sensors and control technology to automatically deliver optimum treatment performance with high operational efficienc . Eliminating harmful microorganisms, reduce the bioburden, protect against bio-fouling, and lead to fewer CIP/SIP cycles. With a certified dry UV sensor measures the germicidal output of the UV system and a UV dose read out makes easy monitoring and log performance. Control system takes fl w and transmittance meter inputs and calculate the UV dose based on real time operating conditions. The PQ EO H+ models are Hygienic units designed with Triclamp fittings and ha e a 0.8 micron electro polished internal finish





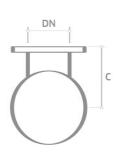
POTENTIAL LOCATIONS OF THE PURELINE PQ EO H+™

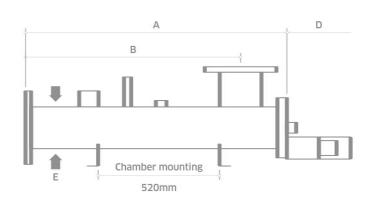


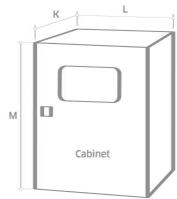
KEY FEATURES	WHAT IT GIVES YOU	BENEFITS FOR YOU					
INTELLIGENCE							
UV sensor	Continuous verification of performance with in-built low UV dose alarm	Easy to monitor and log system performance					
UVGuard™ on UV sensor window	Protects against UV exposure when checking a UV duty sensor with a reference sensor while the system is operating	Ability to safely audit the UV performance without interrupting production					
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							
Single medium pressure lamp	Provides germicidal wavelengths to treat your	Does not affect taste and colour of final product					
	product or process water	No chemicals					
		Protects pre-treatment equipment and RO filters from bio-fouling reducing CIP frequency and downtime					
	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 specifically for the food and beverage industry where hygienic design is required	Chamber has Tri-clamp connections <0.8 µm internal finish electropolished and passivated	Industry compliance, reduced risk of microbiological contamination					
	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(%)	DIMENSIONS (MM)						APPROX WEIGHT (KG)									
	Starting				Cham	ber					rol Ca n cool			rol Cal /ith A/		Chamber	Con Cab	
			Unwiped A	Wiped		С	D	Е	DN	K*	Ľ	M**	K*	L	M**	(Empty)	Fan cooled	With A/C
PureLine PQ EO H+ 6	9	80	1377	1601	1174	220	1230	150	150	400	800	1200	400	1250	1200	44	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.

** 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).

UV CHAMBER	
Material:	StSt 316L / 1.4404
Internal finish:	Tube, welds as laid, <0.8 µm Ra electropolished and passivated
External finish:	BS EN 10088-2 or 10088-3, 1J or 2J and ASTM No. 4
Process (mating) connections:	Tri-clamp DIN 32676 SER A
Drain connection:	Tri-clamp blanked off
End plate:	Removable end plate
Degree of protection:	IP65 equivalent to NEMA 4 but not for outside use
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 (80°C unwiped)
Maximum CIP temperature:	95°C lamp off and CIP request acknowledged
Hydrostatically pressure tested:	Yes to PED requirements EN 13445
Chamber mounting:	Horizontal only
Operating pressure:	10 bar (positive pressure only)
Seals:	EPDM, ADI free, EC 1935/2004, FDA 21 CFR 177.2600 approved

UVShield™: Power cut-out for lamp access						
Water leak detection: Detects water leaking from the UV lamp enclosure						
UL 508A						
In field UV reference sensor kit						
CABINET (CONTROLLER UVT	°OUCH™)					
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, OK to CIP					
CUSTOMER INPUTS						
4-20 mA active or passive inputs:	Flow meter and transmittance meter					
VFC inputs:	Remote stop/start, remote reset, remote CIP request, reduce power					
24 V dc pulsed inputs:	Start and stop					
CUSTOMER COMMUNICATIO	NS PORT					
RS 485:	Industrial Ethernet					

Vent valve: Manual valve hygienic design



CE marked



PureLine PQ

Also available in our Food & Beverage product range...

PURELINE DC+DCD

Dechlorination and Chlorine Dioxide removal **PURELINE** DO

Ozone removal and treatment

PURELINE D

Treatment as part of a multi barrier approach **PURELINE** S

Sugar syrup treatment

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