

PureLine ECO

OPTIMIZED UV TREATMENT FOR INDUSTRIAL & COMMERCIAL APPLICATIONS

Engineered with precision and driven by sustainability, ECO stands as a revolutionary UV system that promises to reshape the landscape of water treatment in the industrial & commercial markets

Efficiency: Reduce your carbon footprint significantly while maintaining the highest quality standards in your operations.

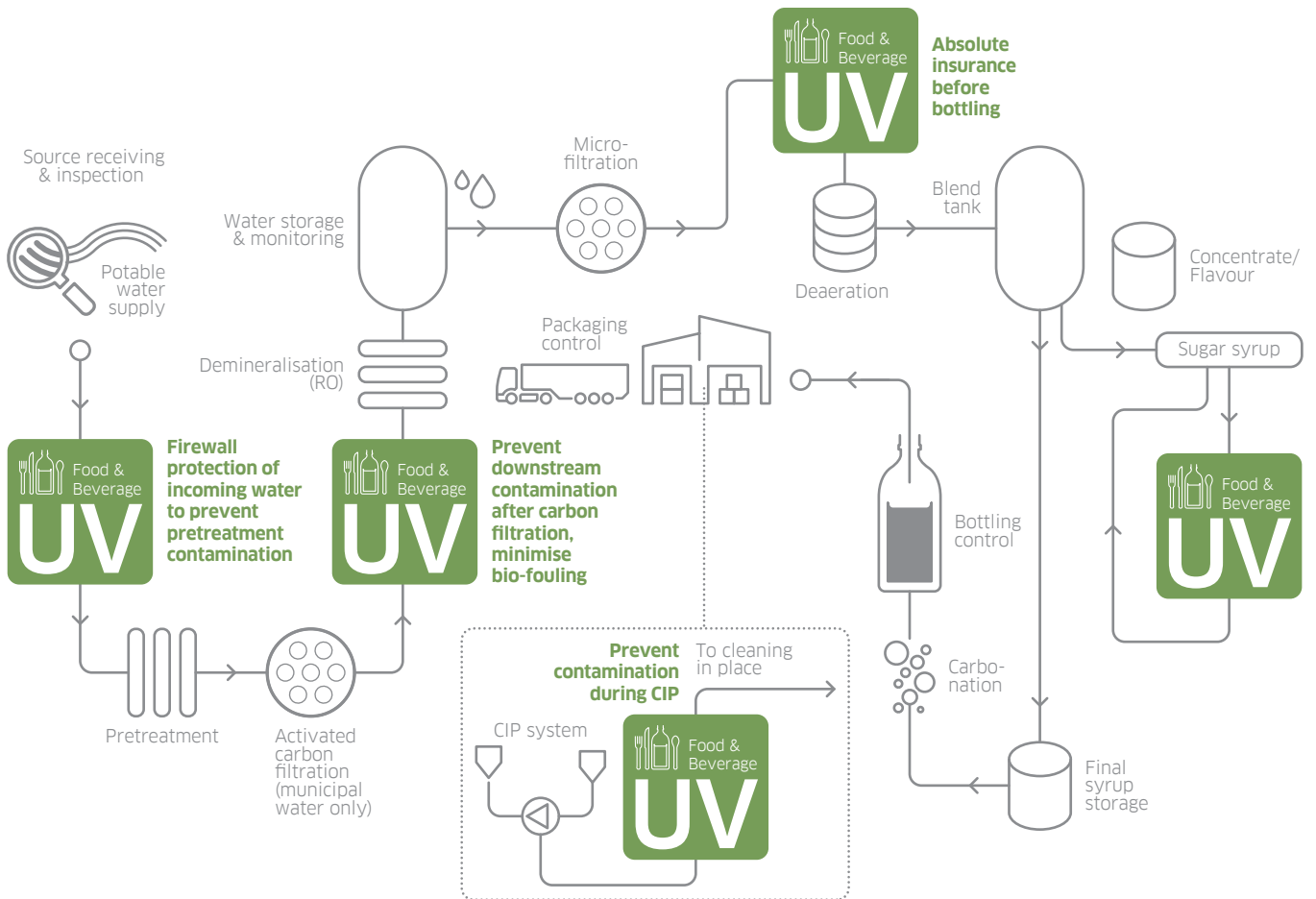
Compact Brilliance: ECO fits where others can't, delivering uncompromised results in limited space.

Optimized Performance: ECO is optimized for peak performance, providing consistently reliable water treatment solutions.



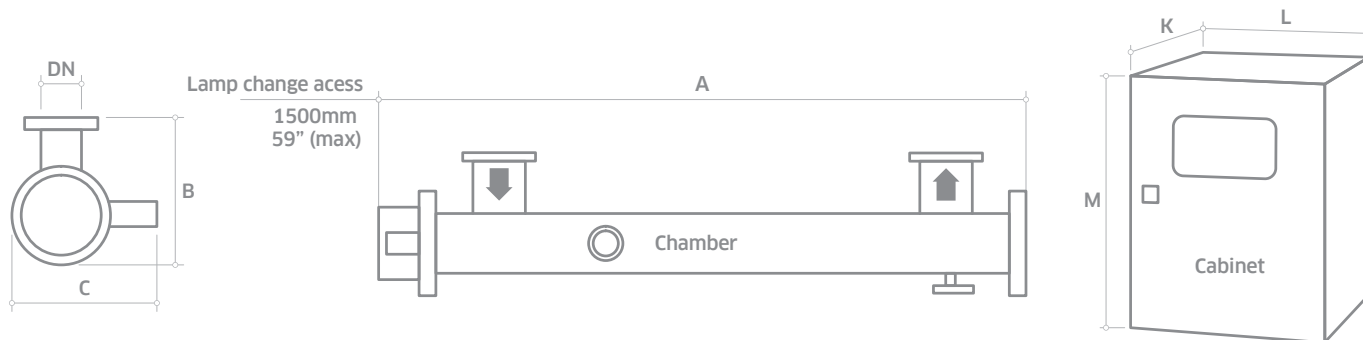
**Application
Optimized UV for
Food & Beverage**

POTENTIAL LOCATIONS OF THE PURELINE ECO



KEY FEATURES	WHAT IT GIVES YOU	BENEFITS FOR YOU
INTELLIGENCE		
UV intensity monitor measuring active wavelengths	Continuous verification of performance with in-built low intensity alarm	Easy to monitor and log system performance
OPTIMIZATION		
UV water treatment	Protect your process waters from microbiological contamination including chlorine resistant Cryptosporidium and Giardia	Does not affect taste and colour of final product No chemicals
Designed for the food and beverage industry	FDA-approved materials used for all wetted parts *Chamber with tri-clamp connections and < 0.38 µm internal finish	Industry compliant materials Sanitary design
INTEGRATION		
Compact design	Can be fitted to skids Can be retrofitted to existing process	Easy integration

*Option



MODEL NUMBER	FLOW* (m ³ /h)	MAX POWER (W)	LAMP (QTY)	CHAMBER SIZE (mm)				CABINET			APPROX WEIGHT (kg)	
				A	B	C	DN	K	L	M	Chamber w/o wiper	Cabinet
Pureline ECO 4	4	90	1	745	210	245	25	180	470	535	10.5	20.5
Pureline ECO 8	9	150	1	1245	230	245	50	180	470	535	12.3	20.5
Pureline ECO 15	17	250	1	1245	230	245	50	180	470	535	12.3	20.5
Pureline ECO 32	31	360	1	1785	230	245	80	180	470	535	22.6	20.5
Pureline ECO 40	35	380	1	1785	335	305	80	180	470	535	41.2	20.5
Pureline ECO 85	79	750	2	1785	335	305	100	210	490	600	42	27.6
Pureline ECO 125	116	1080	3	1785	335	305	**125	210	490	600	43	29.1
Pureline ECO 215	180	1420	4	1785	455	355	150	210	500	700	66.4	35.5
Pureline ECO 225	190	1750	5	1785	455	355	150	210	500	700	66	36.9
Pureline ECO 330	300	1750	5	1790	525	440	200	210	500	700	114	36.9
Pureline ECO 350	315	2100	6	1790	525	440	200	210	510	800	115	44.5
Pureline ECO 380	330	2440	7	1790	525	440	200	210	510	800	116	45.9

**the DN is 150 when connection type is Tri-clamp

*Disinfection capacity based on UV Dose 30mJ/cm² at 98% T₁₀, end of lamp life. Flow rates may differ with triclamp connections.

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

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.

UV CHAMBER

Material:	Stainless Steel 316L / 1.4404
Process (Mating) connection:	PN10 to EN1092-1
End plate:	Removable plate
Drain connection:	Tri-Clamp 1" BS4825
Degree of protection:	IP54 equivalent to NEMA 12
Internal finish:	< 0.5 µm Ra (Welds ground out)
Lamp type:	Low Pressure Amalgam
Expected Lamp life:	9,000 hours
UV sensor:	Dry sensor
Temperature sensor	Yes, PT100
Seals:	EPDM, FDA 21 CFR 177.2600
Maximum CIP temperature:	95°C with cabinet electrically isolated
Working fluid temperature:	5-40°C
Chamber mounting:	Horizontal only
Operating pressure:	10 bar

OPTIONS

Interconnecting cable lengths:	5 m
Chamber internal finish:	< 0.38 µm Ra (Welds ground out)
Document support pack	
Process (Mating) connection:	Tri-Clamp BS4825 (for ECO 225 and smaller models)
ANSI B 16.5 Class 150 process (mating) connection	
Carbon Steel Cabinet	

APPROVALS

CE marked, UL

CABINET (UV CONTROLLER)

Material:	Stainless Steel 304
Controller:	UV Controller
HMI:	7" Touch screen
Interconnecting cable lengths:	3 m
IP rating:	IP54 / NEMA 12
Power supply:	220 V ± 10%, 50/60 Hz, single phase, L+N+G. 110V (for ECO 4-215)
Operating temperature range:	5-40°C
Humidity:	< 90% no condense cabinet fan installed for ECO 32 and larger systems
Control & Display:	Stepless power adjustment 50-100% All alarms and warnings Fixed dose running Water temperature Lamp running hours Flow rate (m ³ /h or GPM) UV dose
Alarm & Warning:	Low UV dose Lamp end pre-warning (time adjustable) Lamp fault alarm Chamber over temperature alarm UV sensor fault alarm Temperature sensor fault alarm Warning for lamp and quartz resetting
Input:	Flow 4-20 mA T ₁₀ 4-20 mA Remote On/Off
Output:	UV dose 4-20 mA Any system alarm VFC Any system warning VFC Low UV dose alarm VFC Lamp fault alarm VFC Lamp preheat VFC Lamp ready VFC



PureLine ECO

Also available in our ECO product range...



**TOCLINE
ECO**

Breakdown and reduction
of TOC using medium
pressure lamp



**PHARMALINE
ECO**

Reduce the bio-burden,
protect against bio-
fouling, lead to fewer
CIP/SIP

Canada

+1 980 256 5700
americas@nuvonicuv.com

China

+86 216 167 9599
apac@nuvonic.cn

Germany

+44 175 351 5300
emea@nuvonicuv.com

Malaysia

+60 16 440 8834
sea@nuvonicuv.com



Mexico

+1 980 256 5700
americas@nuvonicuv.com

United Kingdom

+44 175 351 5300
emea@nuvonicuv.com

USA

+1 980 256 5700
americas@nuvonicuv.com



NUVONIC

A Halma company

formerly Aquionics, Berson, Hanovia and Orca GmbH

