

formerly Aquionics, Berson, Hanovia and Orca GmbH



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.

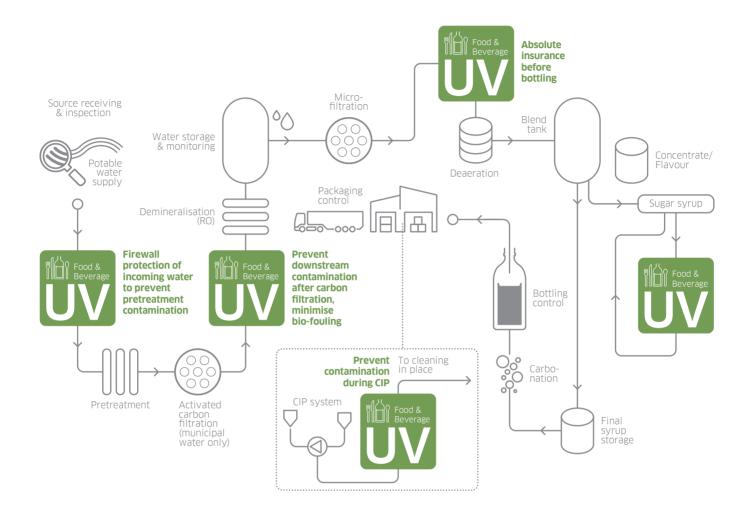
Compact Brilliance: ECO fits where others can't, delivering uncompromised results in limited space.

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

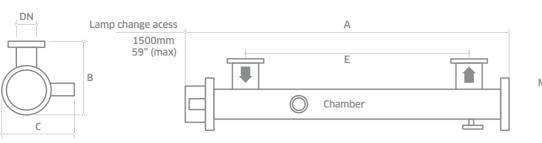


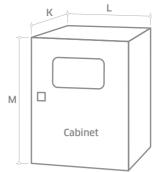
Application Optimized UV for Food & Beverage

POTENTIAL LOCATIONS OF THE PURELINE ECO



KEY FEATURES	WHAT IT GIVES YOU	BENEFITS FOR YOU		
INTELLIGENCE				
UV intensity sensor 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	Does not affect taste and colour of final product		
	contamination including chlorine resistant Cryptosporidium and Giardia	No chemicals		
Designed for the food and beverage industry	FDA-approved materials used for all wetted parts	Industry compliant materials		
	$^{\star}\text{Chamber}$ with tri-clamp connections and < 0.38 μm internal finish	Sanitary design		
INTEGRATION				
Compact design	Can be fitted to skids	Easy integration		
	Can be retrofitted to existing process			
*Option				





MODEL NUMBER	FLOW* (gpm)	MAX POWER (W)	LAMP (QTY)	СНАМВЕ	R SIZE (inc	h)			CABINE	ΞT		APPROX WEIG	iHT (lb)
				Α	В	С	DN	E	К	L	М	Chamber w/o wiper	Cabinet
Pureline ECO 4	18	90	1	29.3	8.3	9.5	1	17.7	7.1	18.5	21.1	23.1	45.2
Pureline ECO 8	51	150	1	49	9.1	9.5	2	34.6	7	18.5	21.1	27.1	45.2
Pureline ECO 15	96	250	1	49	9.1	9.5	2	34.6	7	18.5	21.1	27.1	45.2
Pureline ECO 32	150	360	1	70.3	9.1	9.5	3	53.1	7	18.5	21.1	49.8	45.2
Pureline ECO 40	270	380	1	70.3	13.2	12	3	52.4	7	18.5	21.1	90.8	45.2
Pureline ECO 85	446	750	2	70.3	13.2	12	4	52.4	8	19	23.6	92.6	60.8
Pureline ECO 125	627	1080	3	70.3	13.2	12	*5	50.4	8	19	23.6	94.8	64.2
Pureline ECO 215	1000	1420	4	70.3	17.9	14	6	50	8	19.6	27.6	146.4	78.3
Pureline ECO 225	1000	1750	5	70.3	17.9	14	6	50	8	19.6	27.6	145.5	81.4
Pureline ECO 330	1700	1750	5	70.5	20.7	17.3	8	47.6	8	19.6	27.6	251.5	81.4
Pureline ECO 350	1700	2100	6	70.5	20.7	17.3	8	47.6	8	20	31.5	253.5	98.1
Pureline ECO 380	1700	2440	7	70.5	20.7	17.3	8	47.6	8	20	31.5	255.7	101.2

*the DN is 6" when connection type is Triclamp

The disinfection capacity is based on UV Average dose 30mJ/cm^2 at $99\% \, \text{T}_{10}$, end of lamp life. 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.

CE marked, UL

UV CHAMBER				
Material:	StSt 316L / 1.4404			
Process (Mating) connection:	ANSI B 16.5 Class 150			
End plate:	Removable plate (Tri-Clamp upto ECO 225, then flanged for larger models)			
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:	12,000 hours			
UV sensor:	Dry sensor			
Temperature sensor	Yes, PT100			
Seals:	EPDM, FDA 21 CFR 177.2600			
Maximum CIP temperature:	203°F with cabinet electrically isolated			
Working fluid temperature:	41-104°F			
Operating pressure:	10 bar			
OPTIONS				
Interconnecting cable lengths: 16.4 ft				
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)				
PN10 to EN1092-1 process (mating) connection				
Carbon Steel Cabinet				
CABINET (UV CONTROLLER)				
Material:	Stainless Steel 304			
Controller:	UV Controller			
HMI:	7" Touch screen			
Interconnecting cable lengths:	9.8 ft			
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:	41-104°F			

CABINET (UV CONTROLLER)				
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			
APPROVALS				



PureLine ECO

Also available in our ECO product range...



Breakdown and reduction of TOC using medium pressure lamp



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

Canada

+1 980 256 5700 americas@nuvoniuvc.com

China

+86 216 167 9599 apac@nuvonicuv.com

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



A Halma company

formerly Aquionics, Berson, Hanovia and Orca GmbH

nuvonicuv.com





FM 29365