

Industry: Food & Beverage

PureLine ECO

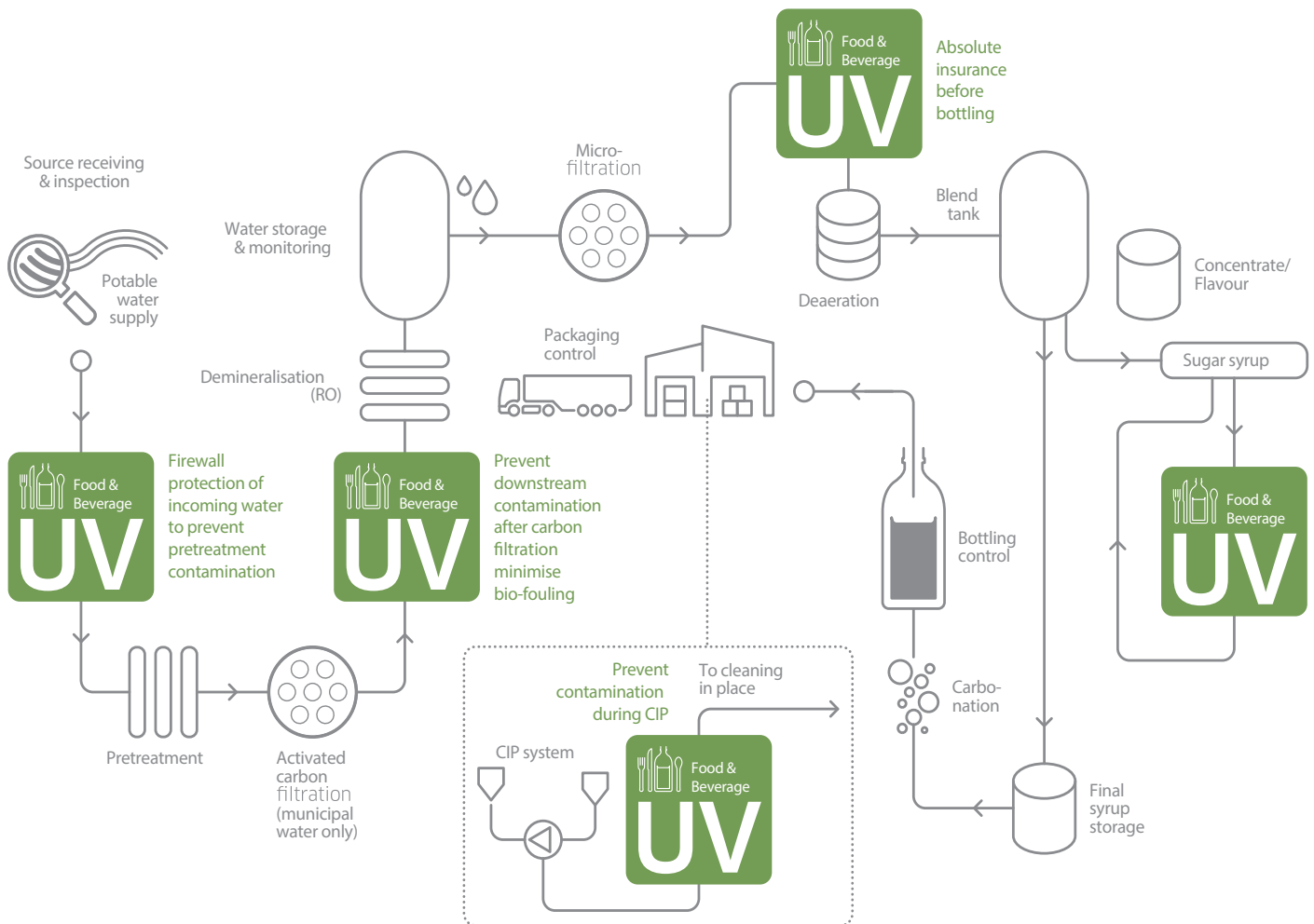


**OPTIMIZED UV
TREATMENT FOR
INDUSTRIAL &
COMMERCIAL
APPLICATIONS.**

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

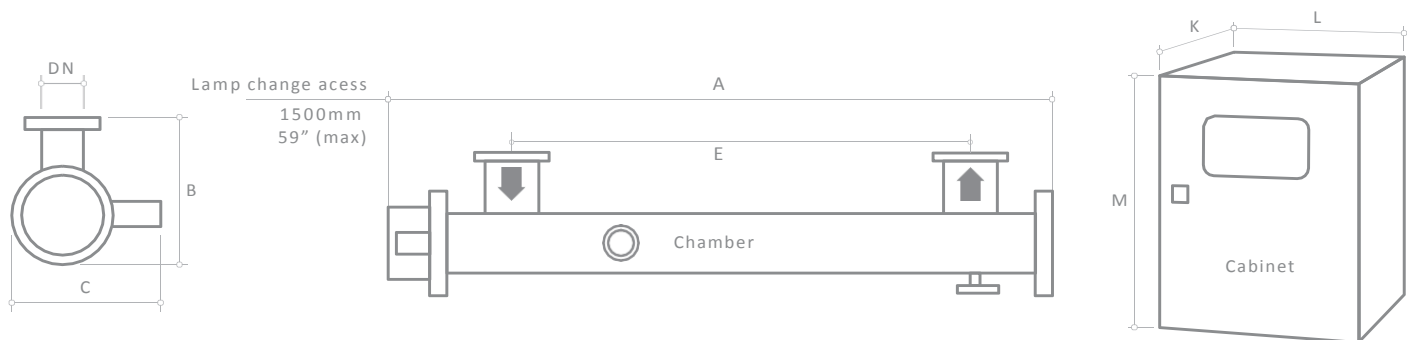
- **Efficiency:** Reduce your carbon footprint significantly while maintaining the highest quality standards in your operations.
- **Compact Brilliance:** ECO fits where others can't, delivering uncompromised results in limited space.
- **Optimized Performance:** ECO is optimized for peak performance, providing consistently reliable water treatment solutions.

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	E	K	L	M	Chamber w/o wiper	Cabinet
Pureline ECO 4	4.1	90	1	745	210	245	25	450	180	470	535	10.5	20.5
Pureline ECO 8	11.6	150	1	1245	230	245	50	880	180	470	535	12.3	20.5
Pureline ECO 15	21.8	250	1	1245	230	245	50	880	180	470	535	12.3	20.5
Pureline ECO 32	34.1	360	1	1785	230	245	80	1350	180	470	535	22.6	20.5
Pureline ECO 40	61.3	380	1	1785	335	305	80	1330	180	470	535	41.2	20.5
Pureline ECO 85	101.3	750	2	1785	335	305	100	1330	210	490	600	42	27.6
Pureline ECO 125	142.4	1080	3	1785	335	305	*125	1280	210	490	600	43	29.1
Pureline ECO 215	227.1	1420	4	1785	455	355	150	1270	210	500	700	66.4	35.5
Pureline ECO 225	227.1	1750	5	1785	455	355	150	1270	210	500	700	66	36.9
Pureline ECO 330	386.1	1750	5	1790	525	440	200	1210	210	500	700	114	36.9
Pureline ECO 350	386.1	2100	6	1790	525	440	200	1210	210	510	800	115	44.5
Pureline ECO 380	386.1	2440	7	1790	525	440	200	1210	210	510	800	116	45.9

*the DN is 150 when connection type is Triclamp

The disinfection capacity is based on UV Average dose 30mJ/cm² at 99% t₁₀, 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.

UV CHAMBER

Material:	StSt 316L / 1.4404
Process (Mating) connection:	PN10 to EN1092-1
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:	95°C with cabinet electrically isolated
Working fluid temperature:	0-40°C
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



S P E C T R A

PROFESSIONAL UV SOLUTIONS

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