



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.

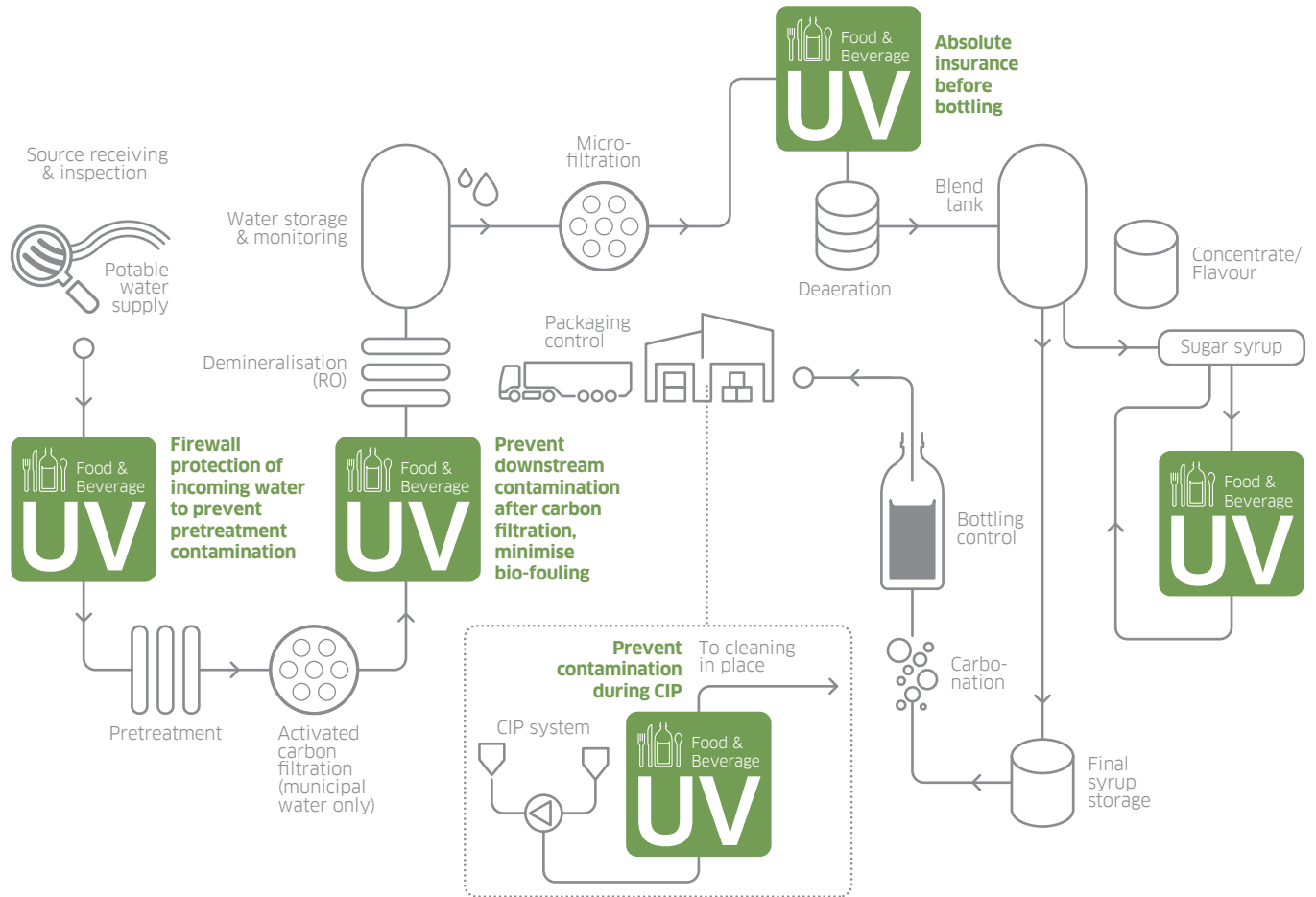
Compact Brilliance: ECO fits where others can't, delivering uncompromised results in limited space.

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



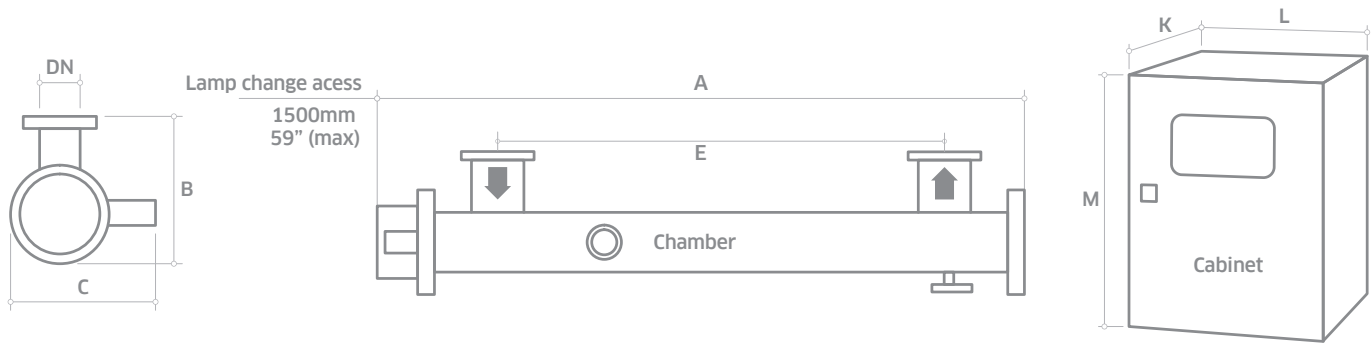
Application
Optimized UV for
Food & Beverage

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 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* (gpm)	MAX POWER (W)	LAMP (QTY)	CHAMBER SIZE (inch)					CABINET			APPROX WEIGHT (lb)	
				A	B	C	DN	E	K	L	M	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/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:	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

CE marked, UL



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

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