



## 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.

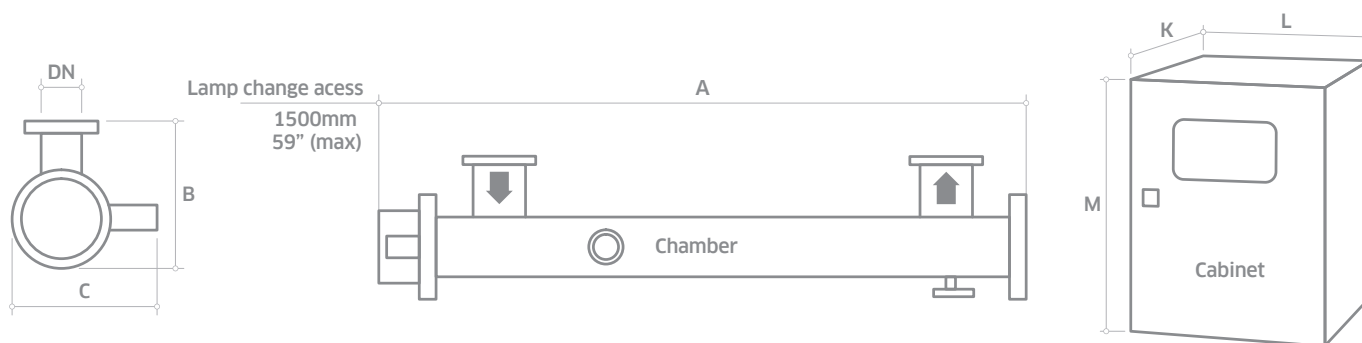
**Compact Brilliance:** ECO fits where others can't, delivering uncompromised results in limited space.

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



Application  
Optimized UV for  
Food & Beverage

KEY FEATURES	WHAT IT GIVES YOU	BENEFITS FOR YOU
<b>INTELLIGENCE</b>		
UV intensity monitor measuring active wavelengths	Continuous verification of performance with in-built low dose alarm	Easy to monitor and log system performance
<b>OPTIMIZATION</b>		
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 Optional chamber with tri-clamp connections and <0.38 µm internal finish	Industry compliant materials Sanitary design
<b>INTEGRATION</b>		
Compact design	Can be fitted to skids Can be retrofitted to existing process	Easy integration



MODEL NUMBER	FLOW** m³/h [gpm]	MAX POWER (W)	LAMP (QTY)	CHAMBER SIZE mm [in]					CHAMBER WEIGHT kg [lb]	
				A without wiper	A with wiper	B	C	DN	Chamber without wiper	Chamber with wiper
Pureline ECO 4	4.1 [18.1]	90	1	745 [29.3]	N/A	210 [8.3]	245 [9.5]	25 [1]	10.5 [23.1]	N/A
Pureline ECO 8	8.6 [37.9]	150	1	1245 [49]	N/A	230 [9.1]	255 [10.0]	50 [2]	18.5 [40.7]	N/A
Pureline ECO 15	17.8 [78.4]	250	1	1245 [49]	N/A	230 [9.1]	255 [10.0]	50 [2]	18.5 [40.7]	N/A
Pureline ECO 32	32 [140.9]	360	1	1785 [70.3]	N/A	230 [9.1]	275 [10.7]	80 [3]	24.3 [53.6]	N/A
Pureline ECO 40	41 [180.5]	380	1	1785 [70.3]	1895 [74.6]	335 [13.2]	305 [12.0]	80 [3]	42.7 [94.1]	49.0 [107.9]
Pureline ECO 85	86 [378.6]	750	2	1785 [70.3]	1895 [74.6]	335 [13.2]	320 [12.6]	100 [4]	42.7 [94.1]	49.0 [107.9]
Pureline ECO 125	125 [550.4]	1080	3	1785 [70.3]	1895 [74.6]	335 [13.2]	305 [12.0]	*125 [5]	43.0 [94.8]	48.1 [106.0]
Pureline ECO 215	215 [946.6]	1420	4	1785 [70.3]	1895 [74.6]	455 [17.9]	355 [14.0]	150 [6]	66.4 [146.4]	73.7 [162.5]
Pureline ECO 225	225 [990.6]	1750	5	1785 [70.3]	1895 [74.6]	455 [17.9]	355 [14.0]	150 [6]	66.0 [145.5]	74.1 [163.4]
Pureline ECO 330	333 [1466.2]	1750	5	1790 [70.5]	1900 [74.8]	525 [20.7]	440 [17.3]	200 [8]	114.0 [251.3]	123.0 [271.2]
Pureline ECO 350	355 [1563.0]	2100	6	1790 [70.5]	1900 [74.8]	525 [20.7]	440 [17.3]	200 [8]	115.0 [253.5]	124.0 [273.4]
Pureline ECO 380	385 [1695.1]	2440	7	1790 [70.5]	1900 [74.8]	525 [20.7]	440 [17.3]	200 [8]	116.0 [255.7]	125.0 [275.6]

\*the DN is 150mm [6"] when connection type is Tri-clamp

\*\* The disinfection capacity is based on 30mJ/cm2 at 99% (T10) UVT, end of lamp life

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

## UV CHAMBER

Material:	StSt 316L / 1.4404
Process (Mating) connection:	PN10 to EN1092-1
End plate:	Removable plate (Tri-Clamp up to 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:	9000 hours
UV sensor:	Dry sensor
Temperature sensor	Yes
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
Mounting feet	Included on ECO 215 and above

## 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 material	
NEMA 4X (IP56 equivalent) cabinet	
Wiper: Automatic (electrically driven) available on ECO 40 and above	

MODEL NUMBER	LAMP (QTY)	STANDARD IP54, NEMA 12 CABINET SIZE mm [in]			OPTIONAL IP56, NEMA 4X CABINET SIZE * mm [in]			MAX. CABINET WEIGHT kg [lb]
		M	L	K	M	L	K	
Pureline ECO 4 - ECO 40	1 lamp systems	535 [21.1]	470 [18.5]	180 [7.1]	665 [26.2]	547 [21.5]	240 [9.4]	20.5 [45.2]
Pureline ECO 85 - ECO 125	2-3 lamp systems	600 [23.6]	490 [19.3]	210 [8.3]	750 [29.5]	557 [21.9]	270 [10.6]	29.1 [64.2]
Pureline ECO 215 - ECO 330	4-5 lamp systems	700 [27.6]	500 [19.7]	210 [8.3]	850 [33.4]	567 [22.3]	270 [10.6]	36.9 [81.4]
Pureline ECO 350 - ECO 380	6-7 lamp systems	800 [31.5]	510 [20.1]	210 [8.3]	950 [37.4]	567 [22.3]	270 [10.6]	45.9 [101.2]

\*Stainless steel only

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

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## CABINET (UV CONTROLLER)

Material:	Stainless Steel 304
Controller:	UV Controller
HMI:	7" Touch screen
Interconnecting cable lengths:	5 m
IP rating:	IP54 / NEMA 12
Power supply:	220 V ± 10%, 50/60 Hz, single phase, L+N+G.
Operating temperature range:	5-40°C
Humidity:	< 90% noN-condensing
Control & Display:	Stepless power adjustment 50-100% (excluding ECO 4-8) All alarms and warnings Fixed dose running Water temperature Lamp running hours Flow rate (m³/h or GPM) UV dose Lamp ready VFC
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 <sub>10</sub> 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, UKCA, UL, FCC
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## PureLine ECO

Also available in our ECO product range...



**TOCLINE  
ECO**

Breakdown and reduction  
of TOC



**PHARMALINE  
ECO**

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

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# NUVONIC

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