



The Lifeline PQ range offers environmentally friendly, chemical free UV disinfection systems that have been performance qualified through third party validation for the ultimate assurance of quality.

Whilst each system is based on the cutting edge design of our standard range, the PQ equivalent has been specially adapted to offer an enhanced level of bio-security for the most demanding of environments:

Integration of a DVGW approved dry UV sensor measuring germicidal wavelengths allows for continuous verification of performance with real time RED dose readings and an in-built low dose warning alarm.

Flow and UVT meter inputs provide dose readings based on actual process conditions to ensure accuracy is guaranteed under a wide range of operating conditions.

Utilising High quality FDA approved manufacturing materials and upgraded monitoring technology the PQ range is designed to meet the stringent safety requirements of the food and beverage industry.

Upgraded system driver in the IP66 rated RCM controller (verified absolute dry) enables over temperature sensor to be fitted with a dump valve as standard.

Above image shows:  
Lifeline UV 02300  
with UV Monitor

## PQ RANGE TECHNICAL SPECIFICATION

MODEL	Lifeline UV 00729PQ	Lifeline UV 01250PQ	Lifeline UV 2300PQ	Lifeline UV 4400PQ	Lifeline UV 10020PQ
Treatment Capacity:					
30mJ/cm <sup>2</sup> RED (m <sup>3</sup> /hr) *	3.40	8.80	17.40	18.10	96.00
40mJ/cm <sup>2</sup> RED (m <sup>3</sup> /hr) *	2.50	6.30	12.70	12.80	66.70
Lamps	1	1	1	1	1
Lamp Type/Power [W]	Amalgam 80W	Amalgam 140W	Amalgam 270W	Amalgam 270W	Amalgam 600W
Expected Lamp Life (hours) **	12000	12000	12000	12000	12000

### UV REACTOR

Material of Construction	316 L Stainless Steel, Electropolished and Passivated...				
Connections	DN40 EN1092-1 PN16	DN50 EN1092-1 PN16	DN50 EN1092-1 PN16	DN80 EN1092-1 PN16	DN150 EN1092-1 PN16
Operating Pressure	10 Bar	10 Bar	10 Bar	10 Bar	10 Bar
Maximum Fluid Temperature	40C	40C	40C	40C	40C
IP Rating	IP65 (NEMA 4)	IP65 (NEMA 4)	IP65 (NEMA 4)	IP65 (NEMA 4)	IP65 (NEMA 4)
Length x Diameter (mm) ***	1388 x 102	1388 x 102	1388 x 102	1437 x 168	1980 x 206
Verticle Mounting Option	No	No	No	No	No
UV Sensor	Dry DVGW compliant UV sensor with UVGuard Window...				
Seals	WRAS approved or EDPM, ADI free, EC 1935/2004, FDA 21 CFR 177.2600 approved...				

- \* Capacity at end of lamp life based on 95% UV Transmittance
- \*\* Hours stated subject to no more than 4 start/stop cycles in any 24 hour period
- \*\*\* Allow chamber length clearance for lamp and sleeve replacement

CONTINUED OVERLEAF...

...SPECIFICATION CONTINUED

## ELECTRON CONTROLLER

	Lifeline UV 00729PQ	Lifeline UV 01250PQ	Lifeline UV 2300PQ	Lifeline UV 4400PQ	Lifeline UV 10020PQ
Material of Construction	Polyester coated carbon steel...				
IP Rating	IP66 (NEMA 4)	IP66 (NEMA 4)	IP66 (NEMA 4)	IP66 (NEMA 4)	IP66 (NEMA 4)
H x W x D (mm) Unwiped ****	490 x 300 x 170	490 x 300 x 170	490 x 300 x 170	490 x 300 x 170	690 x 400 x 225
H x W x D (mm) Wiped ****	690 x 400 x 225	690 x 400 x 225	690 x 400 x 225	690 x 400 x 225	690 x 400 x 225
Supply Voltage	230V	230V	230V	230V	230V
Operating Temperature Range	5C to 40C	5C to 40C	5C to 40C	5C to 40C	5C to 40C
Maximum Cable Length	10 metres	10 metres	10 metres	10 metres	10 metres

### HMI/Control

Display	4 line LCD, indicating system status including alarms
Operating Menu	3 levels with password protection
Fault finding	Event log

### Customer Outputs

4-20mA active outputs	UV dose or UV intensity
24 V dc 10 mA max outputs	Lamp on, any trip, any warning, system ready, system in remote, bleed valve

### Customer Inputs

4-20mA active or passive inputs	Flow meter and transmittance meter
VFC inputs	Remote start/stop and remote reset

### Customer Communications Port

RS 485	Modbus
Approvals	CE marked ETL to UL 61010-1, IEC 61010-1

\*\*\*\* Excluding brackets

## OPTIONS

- Document support pack
- Operating and maintenance manual available in English, Chinese, French, German and Spanish
- Automatic wiper (pneumatically driven)
- In-field UV reference sensor kit
- Welder document pack for chamber construction
- Bleed valve – hygienic bleed valve with tri-clamp connection supplied loose
- Skid mounting

Lifeline UV are manufactured at an ISO9001 facility. All systems go through stringent quality checks and come supplied with relevant documentation.

Lifeline UV systems are WRAS approved. Our PQ range features units validated by third party testing in accordance with USEPA UV Disinfection Guidance.

Contact your distributor or Lifeline UV sales advisor if you require further information.

