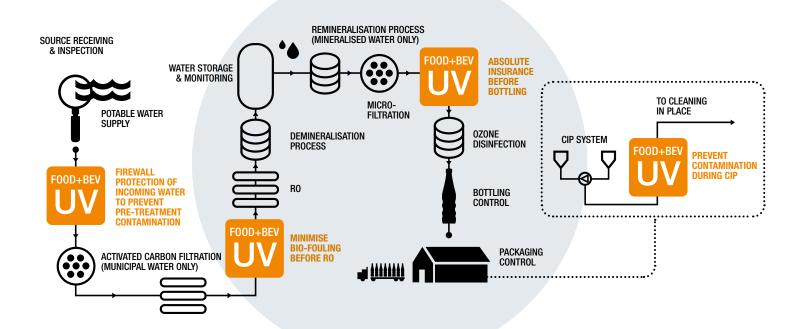
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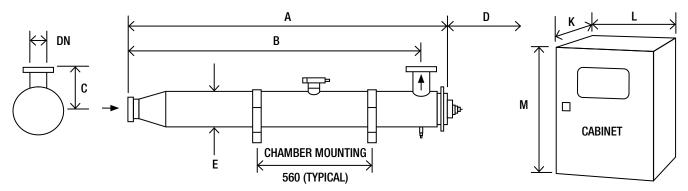
3rd party bioassayed UV treatment for food and beverage Our PureLine PQ AF systems are aimed specifically at providing third party bioassayed UV disinfection for product and process waters used in the food and beverage industry. By using a third party bioassayed UV system you can be certain that the UV dose being produced will disinfect the water, eliminate harmful microorganisms, reduce the bio-burden, protect against bio-fouling, lead to fewer CIP / SIP cycles and lower operating costs. Each system comes with a certified dry UV sensor allowing checking of UV performance. The UV sensor measures the germicidal output of the UV system and a UV dose read out makes it easy to monitor and log performance. The control system also has the ability to take flow and transmittance meter inputs and calculate the UV dose based on real time operating conditions.



Potential locations of the PureLine PQ AF™ in bottled water processing line



WHAT IT GIVES YOU	BENEFITS FOR YOU			
Continuous verification of performance with real time RED dose reading and in- built low dose warning	Easy to monitor and log system performance			
Dose reading based on actual process conditions when meters are connected	Accurate UV dose reading guaranteed under wide range of operating conditions			
UV system dose equations and sizing have been independently derived	Confidence the system will perform as stated			
Protect your product and processes from microbiological contamination including	Does not affect taste and colour of final product			
chlorine resistant <i>Cryptosporidium</i> and Giardia	No chemicals			
_	Protects pre-treatment equipment and RO filters from bio-fouling, reducing CIP frequency and downtime			
FDA-approved materials used for all wetted parts	Industry compliant materials			
$^{*}\mbox{Chamber with tri-clamp connections and}$ $< 0.8 \mu\mbox{m internal finish}$	Sanitary design			
*Automatic wiper (quartz cleaning)	Self cleaning to maintain performance			
Can be fitted to skids	Easy integration			
Can be retrofitted to existing process				
Single cable connection to customer control system				
	Continuous verification of performance with real time RED dose reading and in- built low dose warning Dose reading based on actual process conditions when meters are connected UV system dose equations and sizing have been independently derived Protect your product and processes from microbiological contamination including chlorine resistant <i>Cryptosporidium</i> and <i>Giardia</i> FDA-approved materials used for all wetted parts *Chamber with tri-clamp connections and < 0.8 µm internal finish *Automatic wiper (quartz cleaning) Can be fitted to skids Can be retrofitted to existing process Single cable connection to customer			



			Dimensions (mm)						Approx weight (Kg)				
Model Number	Maximum Power (W)	Min T ₁₀₍ %)	А	В	С	D	E	DN	K*	L	M**	Chamber (Empty)	Control Cabinet
PureLine PQ AF 0005	125	60	1388	1273	82	1300	102	40	224	600	890	9	36
PureLine PQ AF 0008	200	60	1388	1273	82	1300	102	50	224	600	890	9	36
PureLine PQ AF 0016	350	60	1388	1273	82	1300	102	50	224	600	890	9	36
PureLine PQ AF 0030	350	60	1437	1300	150	1300	168	80	224	600	890	24	36
PureLine PQ AF 0090	750	60	1980	1825	200	1900	206	150	224	600	890	46	36

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

M dimension includes the space for the cabinet mounting brackets but you need to allow space below the cabinet for cable entry and access (minimum of 250 mm).

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
Internal finish:	As made pipe and tube, welds as laid, electropolished and passivated
External finish:	Sateen polish (120 grit) electropolished and passivated
Process (mating) connections:	Flange EN 1092-1 PN16
Drain connection:	Tri-clamp to ISO 2852
End plate:	Removable tri-clamp except PQ AF 0090 which is flanged
Degree of protection:	IP65 equivalent to NEMA 4 but not for outside use
Arc tube (lamp):	Low pressure amalgam
Arc tube enclosure:	Pure quartz (F200)
Number of arc tubes (lamps):	1
Expected lamp life:	12000 hours
Temperature sensor:	Yes
UV sensor:	Dry DVGW compliant UV sensor with UVGuard™ window
Working fluid temperature:	5°C to 40°C
Maximum CIP temperature:	130°C (PQ AF 0005 – PQ AF 0016) 95°C (PQ AF 0030 – PQ AF 0090) with cabinet electrically isolated
Hydrostatically pressure tested:	Yes to PED requirements EN 13445
Chamber mounting:	Horizontal only
Operating pressure:	10 bar (positive pressure only)
Seals:	EPDM, ADI free, EC 1935/2004, FDA 21 CFR 177.2600 approved
OPTIONS	
Transmittance compensating de	ose equation
Document Support Pack	

Supply voltages (nominal): 230 V (+/- 10%) 50/60 Hz Operating temperature 5°C to 40°C range: Relative humidity: <95% non-condensing Cooling fans: No Interconnecting cable 10 m lengths: Stepless variable power on PQ AF 0090 Variable power:

Welder Document Pack for chamber construction Bleed: Hygienic valve with tri-clamp connection Skid mounting (not ship board or earthquake zone)

In-field UV reference sensor kit

Material:

Degree of protection:

only (40% reduction from max ballast power, 20% dose reduction)

HMI / CONTROL	
Display:	4 line LCD, indicating system status including alarms
Operating menu:	3 levels with password protection
Fault finding:	Event log
CUSTOMER OUTPUTS	
4-20 mA active outputs:	UV dose and UV intensity
24 V dc 10 mA max outputs:	Lamp ON, any trip, any warning, system ready, system in remote, bleed valve
CUSTOMER INPUTS	
4-20 mA active or passive inputs:	Flow meter and transmittance meter
VFC inputs:	Remote stop/start and remote reset
CUSTOMER COMMUNICAT	FIONS PORT
RS 485:	Modbus
APPROVALS	

Max. CIP temperature: 130°C (PQ AF 0030 - 0090, panel switched off)

Polyester coated carbon steel

IP66 / NEMA 4

CE marked

Flange options: ANSI 150, JIS, Table 'E' and tri-clamp with 0.38 µm	ı
internal finish	

Cabinet material: Stainless steel 304

Wiper: Automatic (pneumatically driven)

Chamber internal finish: Tri-clamp chamber only <0.38 µm, welds left as laid, electropolished and passivated

Operation and Maintenance manual and printed Installation and Commissioning manual in Chinese, English, French, German and Spanish

Lead length: 20 & 29 m PQ AF 0005 - 0008, 14 m PQ AF 0016 - 0090 UVShield™

Water leak detection

UL Listing

UL 508A Panel shop



Also available in our Food & Beverage product range...



PURELINE DC+DCD

Dechlorination and Chlorine Dioxide removal



PURELINE DO

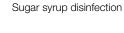
Ozone removal and disinfection



PURELINE D

Disinfection as part of a multi barrier approach







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