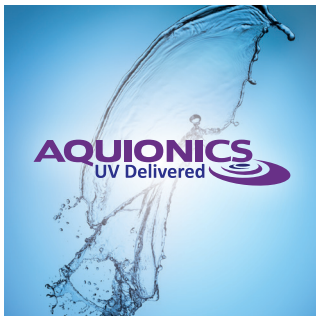


# PureLine DC™

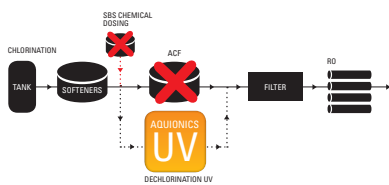


## THE POWER IN UV TECHNOLOGY FOR FOOD & BEVERAGES



### Effective De-chlorination & Disinfection for the Food & Beverages Industry

Aquionics PureLine DC UV technology delivers guaranteed high UV dose for effective dechlorination and enhanced disinfection, perfect for the beverage and brewing industry. In addition, UV dechlorination protects RO membranes and from residual chlorine and risk of bio-fouling.



Aquionics UV dechlorination provides distinct advantages over traditional technologies such as Activated Carbon bed filtration (ACF) and Sodium Bisulphite dosing (SBS) which are proven chlorine removal technologies, but are prone to potential microbial contamination and require significantly more operator involvement and plant-room space leading to higher lifetime costs.

#### KEY FEATURES

Primary De-chlorination System

#### WHAT IT GIVES YOU

- Proven & effective chlorine destruction
- Protects RO membranes from residual Chlorine and risk of bio-fouling
- Efficient & reliable non-chemical De-chlorination
- Provides enhanced disinfection as well as De-chlorination
- Single unit continuous operation

#### BENEFITS FOR YOU

- Reduces free and total chlorine in process lines to levels below the requirement for RO
- Effective non-chemical disinfection of bacteria, algae and other harmful microorganisms
- Unlike ACF, no bio burden generation or regular backwash/sanitisation required
- No need for duty / standby configuration
- No chemical handling

Aquionics Medium Pressure Lamp Technology

- Medium pressure UV provides high intensity UV light at wavelengths ranging from 200 to 400nm, ideal for the destruction of free Chlorine species HOCl and OCl-
- Effective against Pseudomonas Aeruginosa & Chlorine resistant microbes Cryptosporidium & Giardia

- Ensures no downstream contamination which could effect the beverage process
- Reduces RO CIP frequency
- Prolongs life of RO membranes

Designed for industry

- Fits into your process
- No backwash or rinse cycles
- On-line UV monitoring
- Small footprint
- Easy to maintain
- Space saving
- Low OPEX costs
- Minimal downtime
- No water wastage

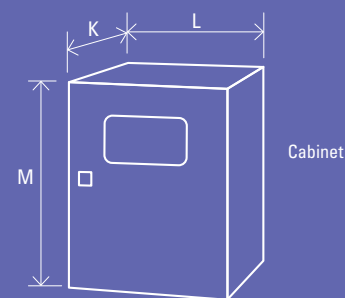
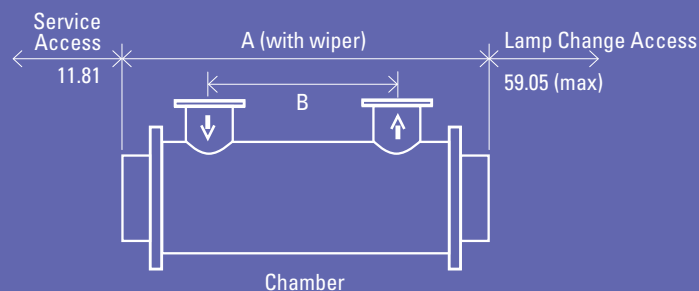
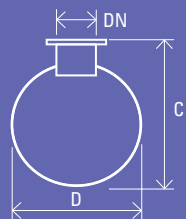


t: +1 (859) 341 0710 (switchboard) e: sales@aquionics.com

Visit our website at [www.aquionics.com/main/](http://www.aquionics.com/main/)

SCAN QR CODE FOR MORE INFORMATION





All dimensions are approximate for clearance purposes only. Aquionics has a policy of continuous product development, exact drawing are available on request. All specifications are subject to change without notification. Your distributor or Aquionics account manager can advise on correct sizing and specification requirements.

Model Number	A (inches)	B (inches)	C (inches)	D (inches)	DN Connection Size (inches)	K (inches)	L (inches)	M (inches)	Weight Empty Chamber (lb)	Weight Cabinet (lb)	Lamp Power (W)
PureLine DC 100	51.18	26.85	12.55	9.44	1 1/2	12.99	25.59	33.46	110	190	2500
PureLine DC 200	51.18	26.53	12.55	9.44	1 1/2	12.99	25.59	33.46	110	190	3500
PureLine DC 300	51.18	26.53	12.55	9.44	2	12.99	31.49	43.30	110	365	5400

#### UV CHAMBER

Material:	Stainless Steel 316L / 1.4404
Internal finish:	As made pipe and tube, welds as laid electro-polished and passivated
External finish:	Sateen polish (120 grit) electro-polished and passivated
Process (mating) connections:	Flange ANSI 150
Drain connection:	Tri-clamp
End plate:	Removable end plate
Degree of electrical protection:	IP65 equivalent to NEMA 4 but not for outside use
Arc tube (lamp):	Medium pressure
Arc tube enclosure:	Pure quartz
Number of arc tubes (lamps):	1
Expected lamp life:	8000 hours, 4000 hours (DC300)
Temperature sensor:	Yes
UV monitor:	Wet UV monitor
Working fluid temperature:	41°F to 140°F
Maximum CIP temperature:	203°F control cabinet electrically isolated
Hydrostatically pressure tested:	Yes to PED requirements EN13445
Operating pressure:	6 bar / 87 psi
Seals:	EPDM

#### OPTIONS

- Document Support Pack
- Stainless Steel Cabinet
- Auto-wiper electrical driven
- Tri-clamp connections
- Chamber internal finish < 0.38 µm Ra welds polished out electro-polished and passivated
- DN PN16, Table 'E', JIS flanges
- Bleed valve
- Lead length 65.61, 98.42 or 164.04 ft cabinet to chamber
- 266°F CIP control cabinet isolated
- Printed Operating, Manual and Safety Guides
- Doped F240 quartz sleeve
- Vent

#### CABINET

Material:	Polyester coated carbon steel
Degree of protection:	NEMA 12 equivalent to IP54
Supply voltages:	DC 100 95 V to 260 V (nominal) 50/60 Hz DC 200-300 190 V to 500 V (nominal) 50/60 Hz
Operating temperature range:	41°F to 104°F
Relative humidity:	< 90% non condensing
Cooling fans:	Yes
Interconnecting cable lengths:	32.80 ft cabinet to chamber

#### Customer Outputs:

4-20mA passive outputs for	UV Intensity
VFC outputs for	Local/Remote, System available, Lamp ready, System warning, Common alarm, ELCB (Earth leakage circuit breaker) trip, Low UV warning

#### Customer Inputs:

VFC input for	Remote start stop and reset
4-20mA passive input for	Flow meter

#### APPROVALS

CE marked	UL listed E149108
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