

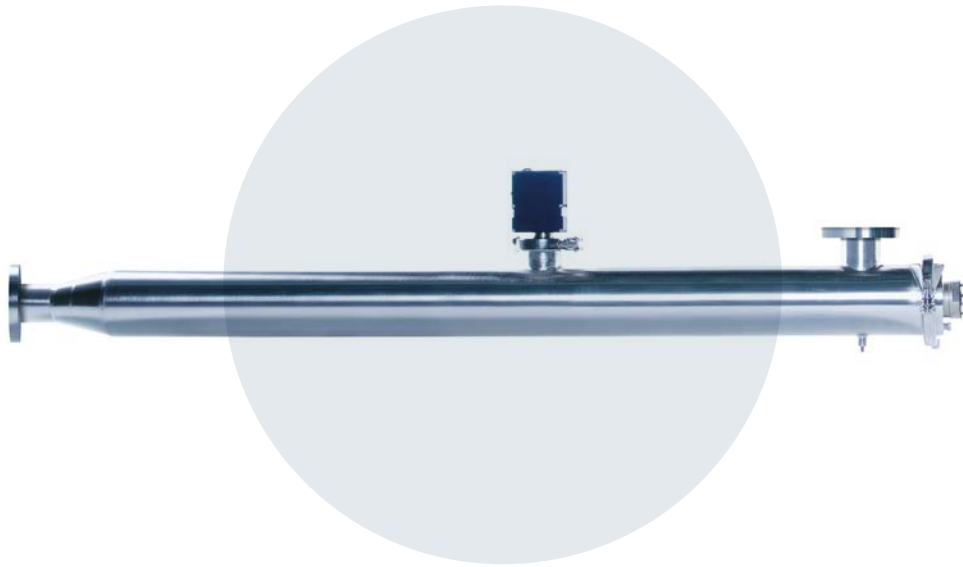
We UVCare...



PURELINE DO AF

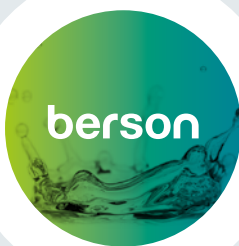
## Application Optimized UV for Food & Beverage

**RODEM**<sup>®</sup>  
SMART SANITARY PROCESSES  
[www.Rodem.com](http://www.Rodem.com) | (800) 543-7312



### UV deozonation for food and beverage

Our PureLine DO AF UV systems are aimed specifically at providing ozone removal and disinfection for product and process waters used in the food and beverage industry. When installed in a distribution loop the PureLine DO AF will remove residual ozone dosed into the water to maintain microbiological integrity. The UV system can be remotely controlled to turn off to allow residual ozone to disinfect the purified water loop during a SIP and then be turned on again to remove the ozone before the loop is put back into service. Each system comes with a UV monitor to measure the lamp output making it easy to monitor and log performance.



**berson**

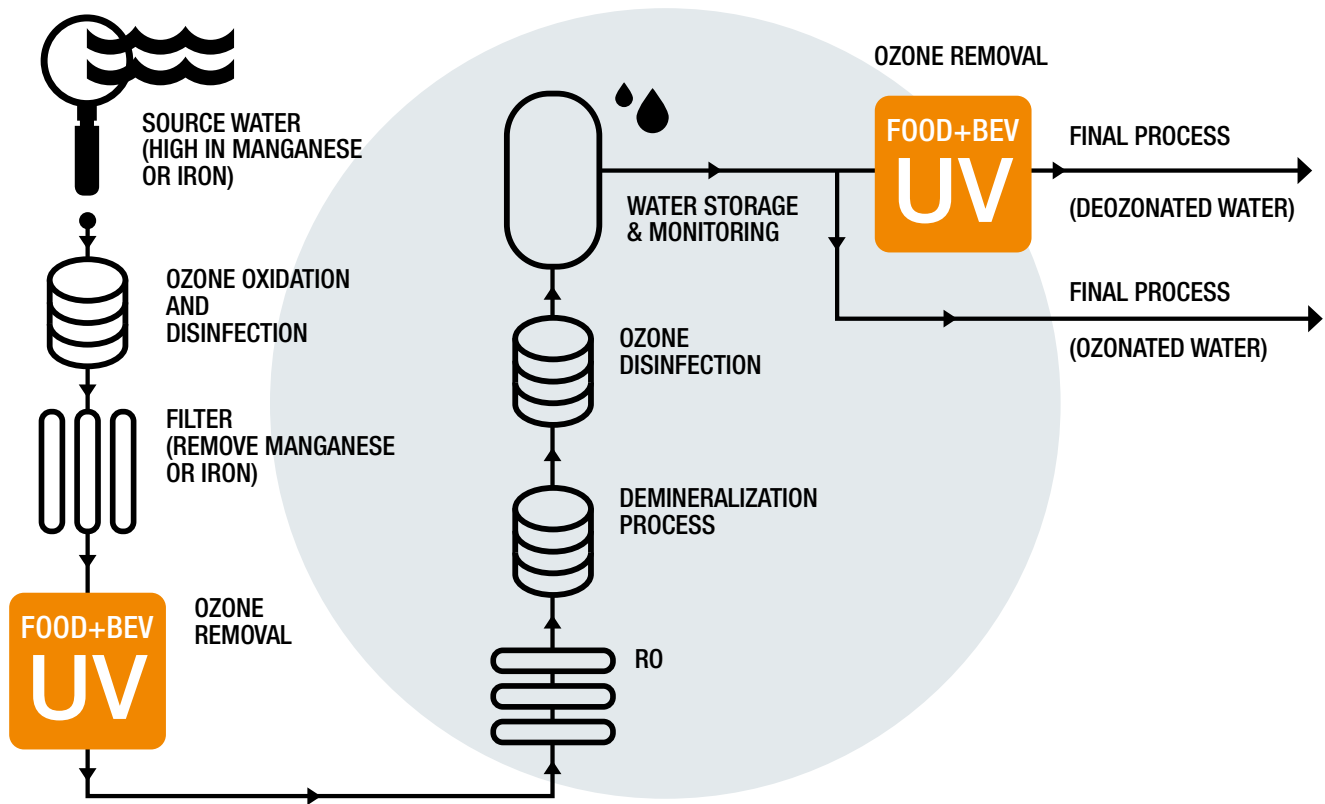


**hanovia**



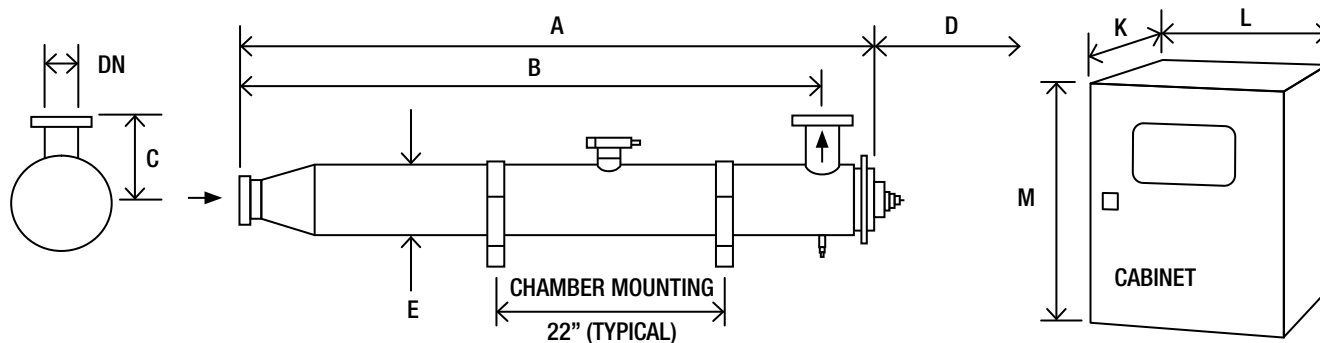
**aquionics**

# Potential locations of the PureLine DO AF™



KEY FEATURES	WHAT IT GIVES YOU	BENEFITS FOR YOU
INTELLIGENCE		
UV intensity monitor measuring UV wavelengths	Continuous verification of performance with in-built low intensity alarm	Easy to monitor and log system performance
OPTIMIZATION		
UV destruction of ozone	Optimized for ozone reduction	Proven reduction of ozone
Designed for the food and beverage industry	Flanged connections, standard internal finish	Reduced system costs where sanitary design is not critical
	FDA-approved materials used for all wetted parts	Industry compliant materials
	*Chamber with tri-clamp connections and <0.38 µm internal finish	Sanitary design
	*Automatic wiper (quartz cleaning)	Self cleaning
INTEGRATION		
Compact design	Can be fitted to skids	Easy integration
	Can be retrofitted to existing process	

\*Option



			Dimensions (inches)												Approx weight (lbs)		
									Unwiped			Wiped					
Model Number	Maximum Power (W)	UVT (%)	A	B	C	D	E	DN	K*	L	M**	K*	L	M**	Chamber (Empty)	Control Cabinet (unwiped)	Control Cabinet (wiped)
PureLine DO AF 0005	345	60	54.6	50.1	5.9	51.2	4	2	6.7	11.8	19.3	8.9	15.7	27.2	20	24	44
PureLine DO AF 0008	345	60	56.6	51.2	7.9	51.2	6.6	3	6.7	11.8	19.3	8.9	15.7	27.2	53	24	44
PureLine DO AF 0020	700	60	78	71.9	9.8	74.8	8.1	3	8.9	15.7	27.2	8.9	15.7	27.2	101	49	49

\* 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 9.8") (mounting brackets sold separately).

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:	ANSI 150#
Drain connection:	Tri-clamp to ISO 2852
End plate:	Removable tri-clamp except DO AF 0020 which is flanged
Degree of protection:	IP65 equivalent to NEMA 4 but not for outside use
UV lamp:	Low pressure amalgam
Quartz sleeve:	Pure quartz (F200)
Number of UV lamps:	1
Expected lamp life:	12000 hours
Temperature sensor:	Snap stat, on DO AF 0020 only
UV intensity sensor:	Wet UV monitor (down to minimum UVT)
Working fluid temperature:	41°F to 104°F
Maximum CIP temperature:	266°F (DO AF 0005) 203°F (DO AF 0008 – DO AF 0020) with cabinet electrically isolated
Hydrostatically pressure tested:	Yes
Chamber mounting:	Horizontal or vertical except DO AF 0020 which is horizontal only
Operating pressure:	10 bar (positive pressure only)
Seals:	EPDM, ADI free, EC 1935/2004, FDA 21 CFR 177.2600 approved

## OPTIONS

Document Support Pack

Cabinet material: Stainless steel 304

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

Wiper: Automatic (pneumatically driven)

Flange options: PN16, JIS, Table 'E' and tri-clamp with 0.38 µm finish

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

Maximum CIP temperature: 266°F

(DO AF 0008 – DO AF 0020, panel switched off)

Welder Document Pack for chamber construction

Skid mounting (not ship board or earthquake zone)

## CABINET (CONTROLLER ELECTRON RCM)

Material: Polyester coated carbon steel

Degree of protection: IP66 / NEMA 4 except DO AF 0020 which is IP54 NEMA 12

Supply voltages (nominal): DO AF (0005 & 0008) 115V & 230V  
DO AF (0020) 230V

Operating temperature range: 41°F to 104°F

Relative humidity: <95% non-condensing, except DO AF 0020 which is 85%

Cooling fans: DO AF 0020 only

Interconnecting cable lengths: 16.4 ft

## CUSTOMER OUTPUTS

4-20 mA passive output: UV intensity %

VFC outputs: Lamp ON and Low UV warning

## CUSTOMER INPUTS

VFC inputs: Remote stop/start and remote reset

## CUSTOMER COMMUNICATIONS PORT

None

## APPROVALS

CE marked



## PURELINE DO

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



### PURELINE DC+DCD

Dechlorination and Chlorine  
Dioxide removal



### PURELINE D

Disinfection as part of a  
multi barrier approach



### PURELINE S

Sugar syrup disinfection



### PURELINE PQ

3rd party bioassayed systems  
for critical disinfection or as a  
pathogen barrier



**[www.weuvcare.com](http://www.weuvcare.com)**

BERSON, HANOVIA & AQUIONICS WORKING TOGETHER AS PART OF THE HALMA GROUP.

#### Netherlands

t: +31 40 2907777  
e: [sales@bersonuv.com](mailto:sales@bersonuv.com)

#### China

t: +86 21 61679599  
e: [china@hanovia.com](mailto:china@hanovia.com)

#### USA

t: +1 980 256 5700  
e: [sales@aquionics.com](mailto:sales@aquionics.com)

#### Germany

t: +49 800 5892779  
e: [verkauf@hanovia.com](mailto:verkauf@hanovia.com)

#### Malaysia

t: +60 16 440 8834  
e: [asia@hanovia.com](mailto:asia@hanovia.com)

#### Canada

t: +1 980.256.5700  
e: [sales@aquionics.com](mailto:sales@aquionics.com)

#### United Kingdom

t: +44 1753 515300  
e: [sales@hanovia.com](mailto:sales@hanovia.com)

#### Mexico

t: +1 980.256.5700  
e: [sales@aquionics.com](mailto:sales@aquionics.com)



A **Halma** company