We UVCare...



Application Optimised UV for Food & Beverage

PURELINE DCD PH



UV chlorine dioxide removal for food and beverage

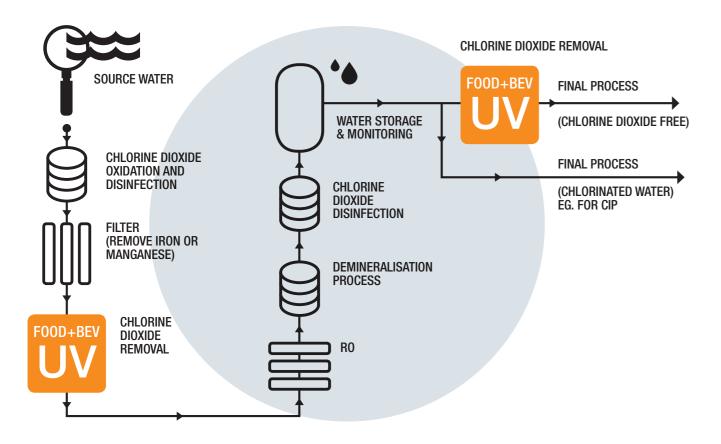
Our PureLine DCD PH UV systems deliver guaranteed high UV doses for effective chlorine dioxide removal and disinfection for the food and beverage industries. By using UV to remove chlorine dioxide we protect RO membranes from both residual chlorine dioxide and bio-fouling. UV chlorine dioxide removal provides distinct advantages over traditional technologies such as Activated Carbon Filtration (ACF) or Ferrous Salt dosing. These proven chlorine dioxide removal methods are prone to microbial contamination and require significantly more operator involvement and plant room space than UV, leading to higher lifetime costs.





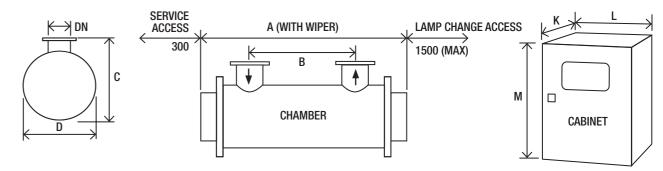


The Operating Cycle of the PureLine DCD PH™



KEY FEATURES	WHAT IT GIVES YOU	BENEFITS FOR YOU			
INTELLIGENCE					
UV intensity monitor	Continuous verification of performance with in-built low intensity alarm	Easy to monitor and log system performance			
OPTIMISATION					
Medium pressure lamp	Provides high intensity UV light at 200 to 400 nm wavelengths ideal for the destruction of chlorine dioxide (ClO2 and OCl-)	Prolongs the life of RO equipment by removing chlorine dioxide			
	Chemical free reduction of chlorine dioxide	No risk of contamination or running out of chemical			
	Unlike ACF does not require backwashing or media replacement	Saves on water and maintenance costs			
	Provides high intensity germicidal wavelengths to disinfect the water	Prolongs the life of RO equipment compared to ACF by reducing the bio-burden			
Designed for the food and beverage industry	FDA-approved materials used for all wetted parts	Industry compliant materials			
	*Chamber with <0.38 µm internal surface finish and tri-clamp connections	Sanitary design			
	*Automatic wiper (quartz cleaning)	Self cleaning to maintain performance			
INTEGRATION					
Compact design	Can be fitted to skids	Easy integration			
	Can be retrofitted to existing process				
Robust design	Maximum of 2 service visits annually	Easy to maintain compared to ACF and Ferrous salt dosing			

*Option



			Dimensio	ons (mm)								Approx we	ight (Kg)
			Chambe	r				Cab.	Cabine	t (fan coo	led)	Chamber	Cabinet
Model Number	Maximum Power (kW)	Min T ₁₀ (%)	А	В	С	D	DN	No.***	K*	L	M**	Empty	Fan cooled
PureLine DCD PH 20	4.2	85	1300	674	319	240	100	1	330	750	850	50	85
PureLine DCD PH 30	4.2	90	1300	674	420	290	150	1	330	750	850	65	85
PureLine DCD PH 40	5.8	85	1300	674	420	290	150	1	330	900	1100	65	165
PureLine DCD PH 50	16.5	65	1300	674	420	290	150	1	330	1100	1600	65	282
PureLine DCD PH 60	25.2	65	1300	674	505	410	250	1 CC	330	900	1100	140	165
								1 PC	330	1100	1600		282

All specifications are subject to change without notification. Your distributor or our account manager can advise on correct sizing and specification requirements

Material:	Stainless steel 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 2037
End plate:	Removable end plate
Degree of 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 (DCD PH 20-40), 4 (DCD PH 50), 6 (DCD PH 60)
Expected lamp life:	8000 hours, 4000 hours DCD PH 40
Temperature sensor:	Yes
UV monitor:	Wet UV monitor (if above minimum T10)
Working fluid temperature:	5°C to 60°C (80°C unwiped)
Maximum CIP temperature:	95°C with cabinet electrically isolated
Hydrostatically pressure tested:	Yes to PED requirements EN 13445
Chamber mounting:	Horizontal only
Operating pressure:	6 bar
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 (electrically driven)
	Flange options: ANSI 150, JIS, Table 'E' and tri-clamp
	Chamber internal finish: <0.38 µm welds polished out, electropolished and passivated
	Lead length: 20 m, 30 m or 50 m cabinet to chamber
	Maximum CIP temperature: 130°C (panel switched off)
	Welder Document Pack for chamber construction

OPTIONS (CONTINUED)
Bleed valve: Hygienic valve with tri-clamp connection
Skid mounting
Operating pressure: 10 bar
Vent valve: Manual valve hygienic design
Cabinet IP rating: Carbon steel air to air heat exchangers IP 66, NEMA 4 or stainless steel version IP 66, NEMA 4X. If fitted no UL listing
Aggressive water package: For 400 ppm to 20000 ppm chloride water
UVShield™: Power cut-out for lamp access
Water leak detection: Detects water leaks from quartz sleeve

Material: Polyester coated carbon steel IP54 NEMA 12 Degree of protection: Supply voltages (nominal): DCD PH 20-40 190 V to 480 V DCD PH 50-60 380 V to 480 V 50/60 Hz (voltage tolerance ± 10% of nominal) Operating temperature range: 5°C to 40°C Relative humidity: <85% non-condensing

Interconnecting cable lengths: 10 m cabinet to chamber

Arc tube enclosure: Doped quartz

4-20 mA passive or active UV intensity % output: VFC outputs: System warning, lamp ready, low UV intensity, common trip, remote reset, ELCB or water leak, system available, local or remote mode

CUSTOMER INPUTS	
4-20 mA passive or active input:	Flow meter
VFC outputs:	Remote stop/start and remote reset

Cooling fans:

^{*} 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).

*** CC: Control Cabinet, PC: Power Cabinet

All dimensions are approximate for clearance purposes only. We have a policy of continuous product development, exact drawings are available on request.



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





Disinfection as part of a multi barrier approach



PURELINE DO

Ozone removal and disinfection



PURELINE S

Sugar syrup disinfection



PURELINE PQ

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







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