PharmaLine DI



Highly efficient, long life UV lamps.



Maintenance programs to ensure optimized system performance.





## ENVIRONMENTALLY FRIENDLY DISINFECTION

Our most rigorously developed and tested products ever created for Pharma. Disinfection has evolved, and we can prove it!

Aguionics' new PharmaLine DL range of highly efficient and low energy UV systems for general disinfection of Pharmaceutical distribution loop process water.

If you'd like to provide sterility for your products, and purity for your process water, Aquionics UV is the right choice. No other technologies purify everything from raw materials through production lines to packaging.

We integrate seamlessly and easily into your existing production lines. We disinfect the water you use everywhere in your process. And, unlike some technologies, we produce no by-products. It's a simple indication of how useful, and effective, our UV systems actually are.



Food & Beverage



Marine



Pharmaceuticals



Electronics

Cosmetics & Toiletries









## narmaLine™ **D**i

UV Chamber	
Material:	St 316L/1.4404
Internal finish:	<0.38µm Ra max welds left as laid electropolished and passivated
External finish:	Sateen polish (120 grit) electropolished and passivated
Process (mating) connections:	Tri-clamp to BS 4825
Drain connection:	Tri-clamp to BS 4825
End plate:	Removable tri-clamp
Degree of protection:	IP65 equivalent to NEMA4 but not suitable for outside use
Arc tube (lamp):	Low pressure amalgam/high purity quartz
Arc tube enclosure:	High purity quartz
Number of lamps:	1
Expected lamp life:	12000-16000 hours
Temperature sensor	No
UV monitor	Wet UV monitor
Working fluid temperature:	+41°F to +104°F
Hydrostatically pressure tested:	Yes to PED requirements EN13445
Maximum CIP temperature:	203°Fwith lamp off
Operating/Design pressure:	6 bar / 7 bar
Pressure loss:	Typically < 40 mbar
Seals:	EPDM FDA approved

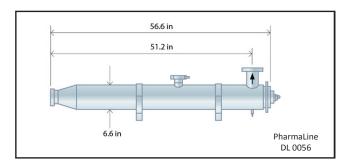
Cabinet	
Material:	Polyester coated carbon steel
Degree of protection:	IP65/NEMA 4
Supply voltages:	230V (207V to 253V) or 115V (104V to 164V) 50/60Hz
Operating temperature range:	+41°F to +104°F
Relative humidity:	<90%
Cooling fans:	No
Cable length:	5m
External contacts:	4-20mA signal for UV Intensity %, Volt Free Contacts for Lamp ON, Low UV warning

Features	
· Lamp on/off	• UV intensity %
• Remote start/stop	Warning and trip messages
Horizontal or vertical mounting	Total hours run
Remote mode	• Lamp fail
Door interlocked cabinet isolator	• Low UV % intensity



	Model	Flow Rate (gpm)	Flange (in)	Number of Lamps	Max Power (W)
	PharmaLine DL 0003	14	1	1	80
lon	PharmaLine DL 0008	22	1.5	1	80
ecti	PharmaLine DL 0014	52	2	1	140
Disinfect Loop	PharmaLine DL 0023	83	2	1	270
Dis	PharmaLine DL 0056	140	3	1	270
	PharmaLine DL 0128	594	6	1	500

The maximum disinfection capacity is based on a dose of 26mJ/cm $^2$  RED MS2 phage T $_{10}$  98%



Validation Support Pack	<ul> <li>Uvtronic control 230V (207 to 263V) CE and UL approved with pre calibrated DVGW compliant do</li> </ul>		
	• CIP maximum 266°F with cabinet electrically		
Stainless Steel cabinet (304)	isolated		

## A HALMA COMPANY

**Celebrating 85 Years of Pure Performance from the UV Technology Pioneers** 











