PharmaLine™ DP
PRE-TREATMENT PROCESS SERIES
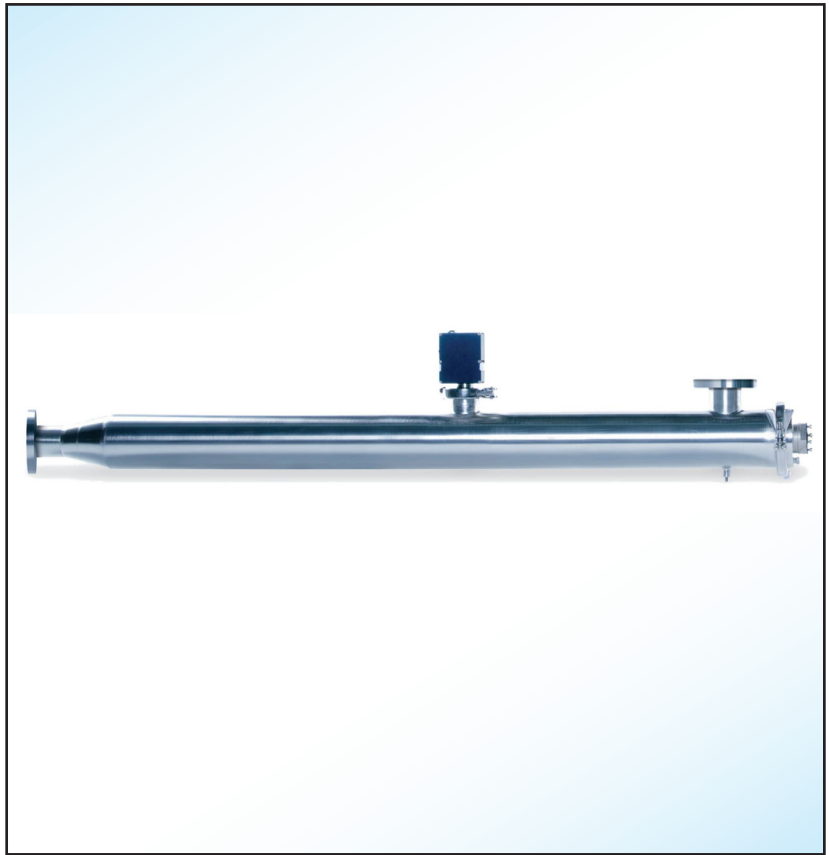
PharmaLine DP

Smart controls – continuous monitoring and DOSE display.

Highly efficient, long life UV lamps.

Maintenance programs to ensure optimized system performance.

UV CARE

ENVIRONMENTALLY FRIENDLY DISINFECTION

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

Aquionics' new PharmaLine DP range of highly efficient and low energy UV systems for general disinfection of Pharmaceutical and pre-treatment process.

Placement of the UV system ahead of the carbon filters for de-chlorination provides higher carbon filter efficiency resulting in longer carbon runs, thus decreasing your operating costs. In addition to extending the life of carbon beds, de-chlorinating process water will remove the off flavors associated with chlorine disinfection. The flavor of the final product will remain unadulterated and free from undesirable flavors and odors.

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.
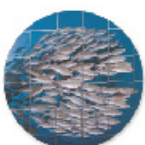
Food & Beverage

Marine

Pharmaceuticals

Electronics

Cosmetics & Toiletries

Aquaculture

Medical & Ophthalmic

AQUIONICS
UV Delivered

PharmaLine™ DP
PRE-TREATMENT PROCESS SERIES

PharmaLine DP

UV Chamber

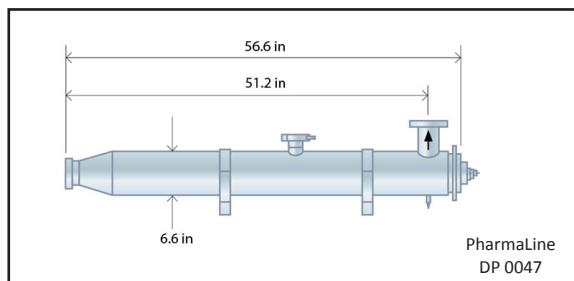|	
Material:	St 316L/1.4404
Internal finish:	As made pipe and tube, welds left as laid electropolished and passivated
External finish:	Sateen polish (120 grit) electropolished and passivated
Process (mating) connections:	Flange DN series PN16 rated
Drain connection:	BSPT
End plate:	Removable tri-clamp
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°F with 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
- Remote start/stop
- Horizontal or vertical mounting
- Remote mode
- Door interlocked cabinet isolator
- UV intensity %
- Warning and trip messages
- Total hours run
- Lamp fail
- Low UV % intensity

Model	Flow Rate (gpm)	Flange (in)	Number of Lamps	Max Power (W)
PharmaLine DP 0003	15	1	1	80
PharmaLine DP 0007	20	1.5	1	80
PharmaLine DP 0013	52	2	1	140
PharmaLine DP 0023	83	2	1	270
PharmaLine DP 0047	114	3	1	270
PharmaLine DP 0128	594	6	1	500

Disinfection Process

The maximum disinfection capacity is based on a dose of 26mJ/cm^2 RED MS2 phage T_{10} 95%

56.6 in
51.2 in
6.6 in

PharmaLine DP 0047

Options

- Validation Support Pack
- Stainless Steel cabinet (304)
- Printed operating, menu and safety guides available in Chinese, French, and German
- Uvtronic control 230V (207 to 263V) CE and UL approved with pre calibrated DVGW compliant dry UV monitor
- Chamber internal finish 0.38μm welds as laid electropolished and passivated
- Auto-wiper with status LED's pneumatic operation
- ANSI 150 flanges and NPT drain
- CIP maximum 266°F with cabinet electrically isolated

A HALMA COMPANY

Celebrating 85 Years of Pure Performance from the UV Technology Pioneers

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