







COSMETICS+TOILETRIES



MEDICAL+OPHTHALMI



NUTRACEUTICALS





UV Chamber								
Material:	StSt 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 NEMA 4 but not suitable for outside use							
Arc tube (lamp):	Low pressure amalgam / high purity quart							
Arc tube enclosure:	High purity quartz							
Number of arc tubes (lamps):	1							
Expected lamp life:	12000-16000 hours							
Temperature sensor:	No							
UV monitor:	Pre calibrated DVGW compliant dry UV monitor.							
Working fluid temperature:	+5°C to +40°C							
Maximum CIP temperature:	95°C with lamp off							
Hydrostatically pressure tested:	Yes to PED requirements EN13445							
Operating / Design pressure:	6 bar / 7 bar							
Pressure Loss:	Typically < 20 mbar							
Seals:	EPDM FDA approved WQA certified to NSF 61 except PQL 0005							

Odbillot	
Material:	Polyester coated carbon steel
Degree of protection:	IP66 / NEMA 4
Supply voltages:	230V (207V to 263V) 50/60Hz
perating temperature range:	+5°C to +40°C
Relative humidity:	<90%
Cooling fans:	No
nterconnecting cable lengths:	10m
External interface:	4-20mA signals for UV dose and UV intensity, 24V dc 10mA max for trip, warning, system available, system remote, lamp running, replace lamp and Modbus for complete remote control





PharmaLine PQL

Performance qualified disinfection for process water loops

Product Specific Data

Features

Operational Features

- Lamp on/off
- Remote/local operation
- Validated dose calculation from fixed or variable flow with or without UVT input
- Option of running with dose algorithm which automatically compensates for changes in UV transmittance
- Selectable auto restart following power failure
- Event log (2000)
- 3 level operating menu
- Pre calibrated DVGW compliant dry UV monitor
- Dry monitor port with light trap

creen Display Features

- 4 line x 20 character backlit LCD with indication of System Status
- Remote / local mode
- Dose or intensity
- Alarms and warnings list
- Date and timeEnglish language

tus • Low UV dose or intensity

- Lamp fail
- Operation outside validated conditions

Safety Features:

- Door interlocked cabinet isolator
- Separate door locks
- Ballast thermal cut out
- Resettable circuit breakers
- UV monitor port shutters (light trap)

Option

- Validation Support Pack
- Stainless Steel cabinet (304)
- 30m lead lengths
- Printed operating, menu and safety guides available in Chinese, French and German
- CIP maximum 130°C with lamp off
- In field UV reference monitor and intensity meter

Approvals

- UL 61010-1 and IEC 61010-1
- CE following the low voltage and EMC directives conforming to EN61000-3-2, 3-3, 4-2, 4-3, 4-4, 4-5, 4-6, 4-8 and 4-11 and 61326-1 class A
- Carollo certified to USEPA / UVDGM (2006)
- UV monior is DVGW W294-3 approved
- All wetted materials WQA certified to NSF 61 except PQL 0005

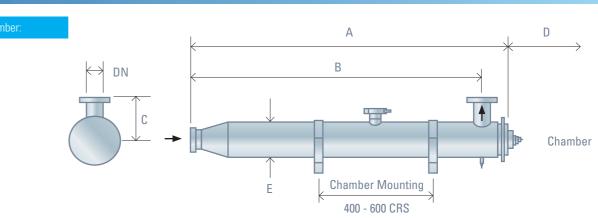
Additional Information

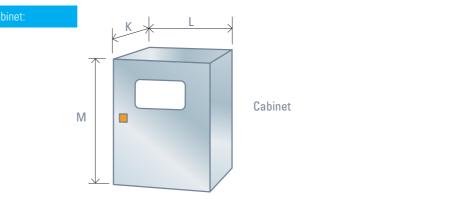
All dimensions are approximate for clearance purposes only. Hanovia has a policy of continuous product development, exact drawings are available on request. All specifications are subject to change without notification. Your Distributor or Hanovia Account Manager can advise on correct dosage and specific requirements.

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Dimensions (mm)





Model	Maximum Disinfection Capacity * (m³/hr)	Min. T ₁₀ (%)	Dimensi A	ons (mm) B	С	D	E	DN	K**	L**	M**	Approx Wei Chamber (Empty)	ght (Kg) Power Supply	Power (W)
PharmaLine PQL 0005	5.3	60	1385	1273	82	1300	102	1.5"	260	600	950	9	37	80
PharmaLine PQL 0009	8.2	60	1385	1273	82	1300	102	2"	260	600	950	9	37	140
PharmaLine PQL 0016	16	60	1385	1273	82	1300	102	2"	260	600	950	9	37	270
PharmaLine PQL 0036	36	60	1437	1300	150	1300	168	3"	260	600	950	20	37	270

^{*} The maximum disinfection capacity is based on a dose of 32mJ/cm² RED MS2 phage T_{in} 98% Fouling Factor 0.95 and 'End of Lamp Life' EOLL 0.9

^{**}Cabinet dimensions allow for door isolator, bottom cable entry and bracket space. For cooling add 300mm to L and 150mm to M dimensions