



Photon 2

Disinfection Range - Medium Pressure



Illustration shows PMD model with optional auto wiper



Technical Specification

UV Chamber		Cabinet	
Material	StSt 316L / 1.4404 pipe, electro-polished and passivated	Material	Epoxy coated carbon steel
Internal finish	As made, welds as laid	Degree of protection	IP54 / NEMA 12
Process (mating) connections	PN16, ANSI 150lb, JIS 10K, Triclamp	Supply voltages:	Models A to C: 95V to 260V (nominal) 50/60Hz Models D to F: 190V to 500V (nominal) 50/60Hz Models G: 380V to 500V (nominal) 50/60Hz
Degree of protection	IP65 / NEMA 4	Operating temperature range	+5°C to +40°C
Arc tube (lamp)	High purity quartz, med. pressure	Cooling fans	Yes
Arc tube enclosure	High purity quartz sleeve	Cable length (cabinet to chamber)	10m
Expected lamp life	4,000 to 8,000 hours	External contacts	4 – 20mA signals for UV dose or intensity Volt-free contacts for seven status indicators (Local/Remote, System Available, Lamp Ready, System Warning, Common Alarm, Low UV Intensity, ELCB Trip) Accepts Remote Start/Stop from customer equipment
Temperature sensor	Yes		
UV monitor	Standard (down to min. T ₁₀)		
Working fluid temperature	+5°C to +60°C		
Hydrostatically pressure tested	Yes, to PED requirement		
Operating pressure	10 bar		
Pressure loss at max. flow	Typically <70 mbar		
Drain stub plus valve	Standard		

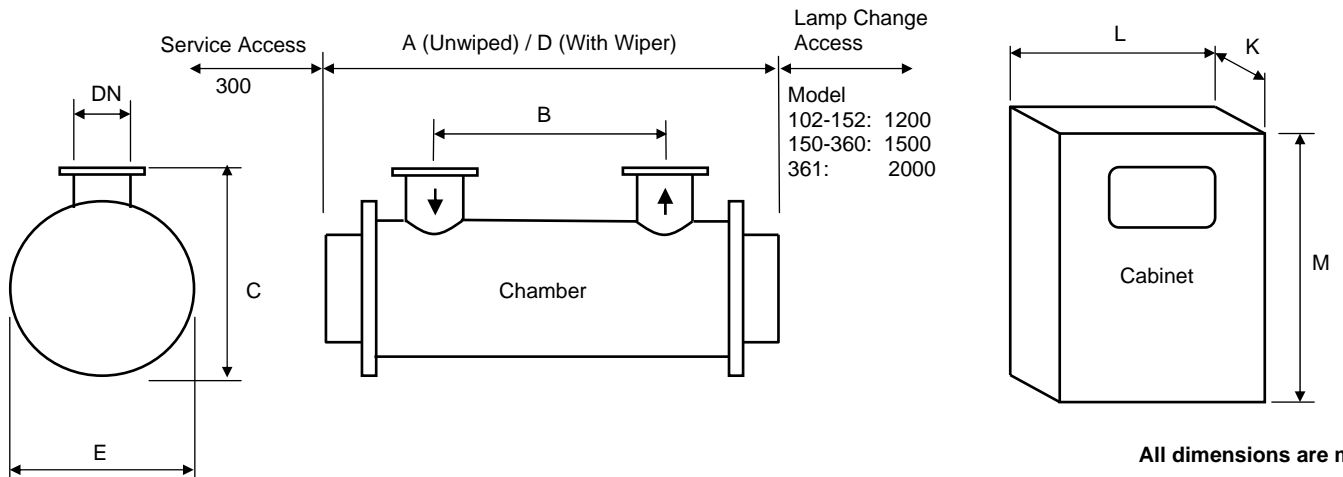
Features

Operational:	Screen Display:	Alarm Messages:	Safety:
<ul style="list-style-type: none"> Lamp on/off Remote/local operation Dose computation from fixed or variable flow Selectable auto restart following power failure 	<ul style="list-style-type: none"> UV dose mJ/cm² UV intensity in mW/cm² or relative percentage Hours run Water flow rate Chamber surface temperature On-line spares listing 	<ul style="list-style-type: none"> Low UV ELCB trip Chamber over temperature Lamp fail Power supply over temperature 	<ul style="list-style-type: none"> Door interlocked cabinet isolator Separate door locks Earth leakage trip Power supply thermal cut-out Re-settable circuit breakers for input supply Wiper motor overload cut-out

Options

<ul style="list-style-type: none"> Automatic wiper system with status messages (PMD152 and above) Manual wiper system (single lamp only PMD152 and above) Dose related four stage power level to arc tubes, with status messages Chamber internal finish, welds ground out: 0.63µm or 0.375µm 	<ul style="list-style-type: none"> Higher hydraulic operating pressures UV chamber suitable for 130°C CIP Cabinets in 316 StSt Cabinet protection to IP65 /NEMA 4 or NEMA 4X Certified arc tubes and UV monitors 	<ul style="list-style-type: none"> Autobled and solenoid valve, with status messages Light trap bends Vent and valve Cable length (chamber to cabinet): 20, 30, 50 or 100m Skid mounted systems, pre-wired and tested for easy installation 	<ul style="list-style-type: none"> Languages: English, French, German or Swedish Validation support pack or material certificate pack
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Product Specific Data



All dimensions are mm

Model	Maximum Disinfection Capacity * (m ³ /hr)	Min. T ₁₀ (%)	Dimensions									Approx. Weight (Kg)		Power (KW)
			A	B	C	D	E	DN	K	L	M	Chamber	Power Supply	
PMD102 A1/2	15	64	620	300	267	N/A	184	50	365	750	850	35	90	0.6
PMD102 B1/2	30	64	620	300	267	N/A	184	50	365	750	850	35	90	1.2
PMD152 B1/2	50	85	620	300	319	850	240	50	365	750	850	40	90	1.2
PMD150 C1/3	60	78	1090	710	319	1300	240	80	365	750	850	45	90	2.5
PMD150 C1/4	100	78	1090	710	319	1300	240	100	365	750	850	45	90	2.5
PMD150 D1/4	100	81	1090	710	319	1300	240	100	365	750	850	45	90	3.5
PMD200 C1/4	100	97	1090	710	420	1300	290	100	365	750	850	65	90	2.5
PMD200 C1/6	135	97	1090	660	420	1300	290	150	365	750	850	65	90	2.5
PMD200 D1/6	230	90	1090	660	420	1300	290	150	365	750	850	65	90	3.5
PMD200 E1/6	230	84	1090	660	420	1300	290	150	365	900	1100	65	165	5.5
PMD200 G4/6	230	62	1090	660	420	1300	290	150	365	1100	1590	70	315	14.0
PMD320 D1/8	350	96	1090	610	505	1300	410	200	365	750	850	140	90	3.5
PMD320 E1/8	400	93	1090	610	505	1300	410	200	365	900	1100	140	165	5.5
PMD320 E1/10	535	93	1090	550	505	1300	410	250	365	900	1100	140	165	5.5
PMD320 F1/8	400	90	1090	610	505	1300	410	200	365	900	1100	140	165	7.0
PMD320 F1/10	600	90	1090	550	505	1300	410	250	365	900	1100	140	165	7.0
PMD320 G4/10	600	62	1090	550	505	1300	410	250	365	1100	1590	140	315	14.0
PMD320 K6/10	600	62	1090	550	505	1300	410	250	365	2100	1590	140	480	21.0
PMD320 L8/10	600	62	1090	550	505	1300	410	250	365	2300	1590	140	630	28.0
PMD360 G4/12	850	76	1090	500	540	1300	430	300	365	1100	1590	280	315	14.0
PMD360 K6/12	850	76	1090	500	540	1300	430	300	365	2100	1590	300	480	21.0
PMD360 L8/12	850	76	1090	500	540	1300	430	300	365	2300	1590	300	630	28.0
PMD361 G4/14	1025	76	1600	930	540	1850	430	350	365	1100	1590	320	315	14.0
PMD361 K6/14	1025	74	1600	930	540	1850	430	350	365	2100	1590	320	480	21.0
PMD361 L8/14	1025	69	1600	930	540	1850	430	350	365	2300	1590	320	630	28.0

Additional Information

* The maximum disinfection capacity is based on a transmittance $T_{10} = 95\%$ and an average UV dose of 32mJ/cm^2 , at end of lamp life or inlet hydraulic limit (based on fluid velocity of 3m/s).

K6 and L8 power supply units (PSUs) are housed in two interconnected cabinets that may either be mounted side-by-side along a wall or back to back on an optional stainless steel skid. Dimension "L" assumes side by side mounting.

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.

Hanovia

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