We UVCare...





PHARMALINE D AF H



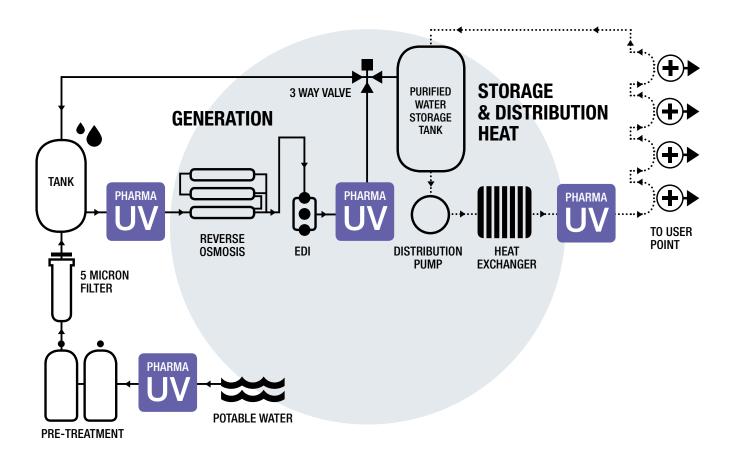
UV disinfection for Purified Water and distribution (Hygienic Design-H) Our PharmaLine D AF H systems are designed for hygiene based on cGMP principles and aimed specifically at providing UV disinfection in Pharmaceutical Purified Water Generation and distribution loop systems where sanitary design is critical. By using a UV system you will disinfect the water, eliminate objectionable organisms, reduce the bio-burden, protect against bio-fouling, lead to fewer CIP / SIP cycles and lower operating costs. Each system comes with a UV monitor to measure the germicidal output of the UV system and make it easy to monitor and log performance. The systems all use low pressure amalgam lamps providing an energy efficient germicidal wavelength and long lamp life to reduce operating costs.



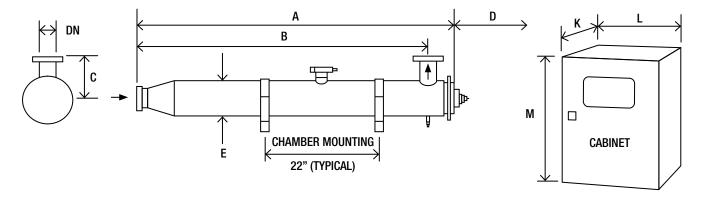




The Operating Cycle of the PharmaLine D AF H™



KEY FEATURES	WHAT IT GIVES YOU	BENEFITS FOR YOU
INTELLIGENCE		
UV intensity monitor measuring germicidal wavelengths	Continuous verification of performance with inbuilt low intensity alarm	Easy to monitor and log system performance
OPTIMIZATION		
Single low pressure amalgam lamp technology (LPHO)	Targeted microbiological wavelength	Proven log reduction of microorganisms as part of a multi-barrier purified water process
		Reduced bio-burden in pre-treatment equipment, leading to fewer CIP / SIP cycles and optimised production efficiency
		Protects RO membranes from bio-fouling, reducing CIP frequency and downtime
Designed for the pharmaceutical industry based on cGMP principles	Sanitary design with <0.38 µm internal surface finish and tri-clamp connections as standard	Industry compliance; reduced risk of microbiological contamination; enhances control of your process as part of a multi-barrier system
	FDA-approved materials used for all wetted parts	
INTEGRATION		
Compact design	Can be fitted to skids	Easy integration
	Can be retrofitted to existing process	-



PharmaLine D AF H (low pr	essure amalga	ım lamp)	Dimension	ons (Inche:	s)							Approx wei	ght (lb)
Model Number	Maximum Power (W)	Min T ₁₀ (%)	А	В	С	D	Е	DN***	K*	L	M**	Chamber (Empty)	Control Cabinet
PharmaLine D AF H 0003	115	60	36	33	3	31.5	2.5	1	6.7	11.8	19.3	11	24.3
PharmaLine D AF H 0005	115	60	54.6	50	3.2	51	4	1.5	6.7	11.8	19.3	19.8	24.3
PharmaLine D AF H 0008	165	60	54.6	50	3.2	51	4	2	6.7	11.8	19.3	19.8	24.3
PharmaLine D AF H 0016	345	60	54.6	50	3.2	51	4	2	6.7	11.8	19.3	19.8	24.3
PharmaLine D AF H 0030	345	60	17	51	6	51	6.6	3	6.7	11.8	19.3	53	24.3
PharmaLine D AF H 0090	600	60	78	71.7	8	75	8.1	6	9	15.7	27.2	102	48.5

* 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 9.8").

** DN tri-clamp sizes over 3" may not fit with standard sanitary tube. Please consult with Aquionics for correct dimensions.

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

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

Material:	StSt 316L / 1.4404
Internal finish:	<0.38 µm Ra, welds left as laid, electropolished and passivated
External finish:	Sateen polish (120 grit) electropolished and passivated
Process (mating) connections:	Tri-clamp. For sizes see Tri-clamp technical bulletin 910425-0001
Drain connection:	Tri-clamp to ISO 2852 Table 2
End plate:	Removable tri-clamp
Degree of protection:	IP65 equivalent to NEMA 4 but not for outside use
Arc tube (lamp):	Low pressure amalgam
Arc tube enclosure:	Pure quartz
Number of arc tubes (lamps):	1
Expected lamp life:	12000 hours
Temperature sensor:	On D AF H 0090 only
UV monitor:	Wet UV monitor
Working fluid temperature:	41°F to 104°F
Maximum CIP temperature:	266°F (D AF H 0003 – D AF H 0016) 203°F (D AF H 0030 –D AF H 0090) with cabinet electrically isolated
Hydrostatically pressure tested:	Yes to PED requirements EN 13445
, , ,	Horizontal or vertical except D AF H 0090 which is horizontal only
tested:	Horizontal or vertical except D AF H 0090

Document Support Pack		
Cabinet material: Stainless steel 304		
	anual and printed Installation and ese, English, French, German and Spanish	
Maximum CIP temperature: 266 (D AF H 0030 – D AF H 0090, p		
Welder Document Pack for cha	amber construction	
Skid mounting		
CABINET		
Material:	Polyester coated carbon steel	
Degree of protection:	IP65 / NEMA 4 except D AF H 0090 which is IP54 NEMA 12	
Supply voltages (nominal):	230 V (207 V to 253 V) 50/60 Hz	
Operating temperature range:	41°F to 104°F	
Relative humidity:	<95% non-condensing	
Cooling fans:	D AF H 0090 only	
Interconnecting cable lengths:	16.4 ft	
CUSTOMER OUTPUTS		
4-20 mA passive output:	UV intensity %	
VFC outputs:	Lamp ON and Low UV warning	
CUSTOMER INPUTS		
VFC inputs:	Remote stop/start and remote reset	
CUSTOMER COMMUNICATION	NS PORT	
None		
CUSTOMER OUTPUTS 4-20 mA passive output: VFC outputs: CUSTOMER INPUTS VFC inputs: CUSTOMER COMMUNICATION	Lamp ON and Low UV warning Remote stop/start and remote reset	

CE marked



Also available in our Pharmaceutical product range...



PHARMALINE PQ+PQH

3rd party validated systems for critical disinfection



PHARMALINE DO

Ozone removal and disinfection



PHARMALINE DC

Chlorine removal







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