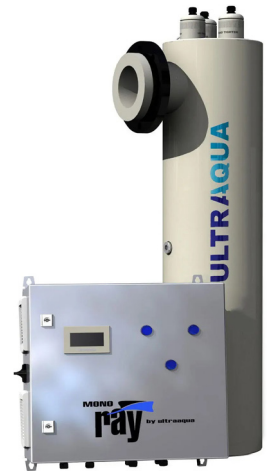


# Low Pressure UV System - MR-PP Series

## Function

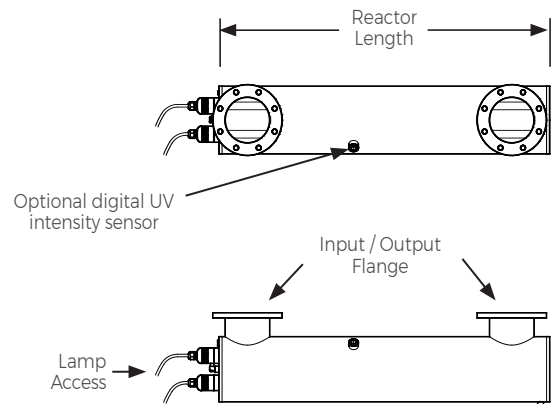
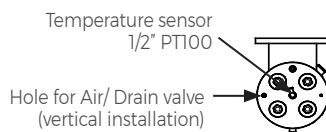
Closed vessel non-corrosive Low Pressure UV system PP series are designed for disinfection of the most challenging seawater and other corrosive fluid environments. Reactor is made of heavy polypropylene for use in very aggressive environment. This material has higher resistance to both high temperature and various chemicals.

Equipped with automated wiping systems, the PP series becomes an unbeatable water disinfection solution without the hindrance of complex and frequent maintenance. Paired with a control cabinet from non-corrosive GFRP materials, closed vessel PP units are able to withstand even the most corrosive water environments.



## Specifications

<b>Reactor Material:</b> Polypropylene	<b>Controller type</b> Microprocessor / PLC	<b>UV Lamp life</b> 9000 - 16000 H
<b>Orientation of Connections</b> U-type (other upon request)	<b>Control Cabinet Material</b> GFRP	<b>SCADA</b> MODBUS (optional)
<b>Temperature Protection (Optional)</b> pT-100 sensor	<b>Control cabinet Installation</b> Wall mounted	<b>Approvals</b> CE
<b>UV sensor (Optional)</b> PTFE UV sensor	<b>Control cabinet Operating temp.</b> 0 - 40 °C	
<b>Quartz sleeve wiping system (optional)</b> Fully automated quartz sleeve wiping system Integrated IP65 DC motor	<b>Control cabinet IP Class</b> IP 54 (optional IP 66)	
<b>Operating Pressure</b> up to 10 bar	<b>Lamp Cable length</b> 3 meters (Max. 30 m)	
<b>Installation</b> Vertical (min. ceiling height 2.5m) Horizontal (1.2m service area)	<b>UV Lamp type</b> Low Pressure High Output amalgam Electronic HF Modbus	



Model No.	No. of Lamps	Power/ Lamps (W)	Inlet/ Outlet	30mJ/cm <sup>2</sup> Max. Flow m <sup>3</sup> H	60mJ/cm <sup>2</sup> Max. Flow m <sup>3</sup> H	Reactor Length (mm)	Cabinet HMI	Cabinet Power (kW)	Cabinet Dimensions (mm)
MR1-75PP	1	75	1.5" BSP (male thread)	7	3.8	1000	LCD colour	0.08	200x150x250
MR1-220PP	1	220	DN80 / ANSI 3" Class 150	36.5	18.3	1320	LCD colour	0.25	400x600x300
MR3-220PP	3	220	DN150 / ANSI 6" Class 150	171	85.5	1320	4.3" display	0.75	700x500x300
MR4-220PP	4	220	DN150 / ANSI 6" Class 150	261	130.6	1320	4.3" display	1	700x500x300
MR6-220PP	6	220	DN150 / ANSI 6" Class 150	408	203	1320	4.3" display	1.5	700x500x300
MR8-220PP	8	220	DN200 / ANSI 8" Class 150	625	312	1320	4.3" display	2	800x600x300

Ultra Violet System	MR Series	Model No. MR-PP	Rev. 1	
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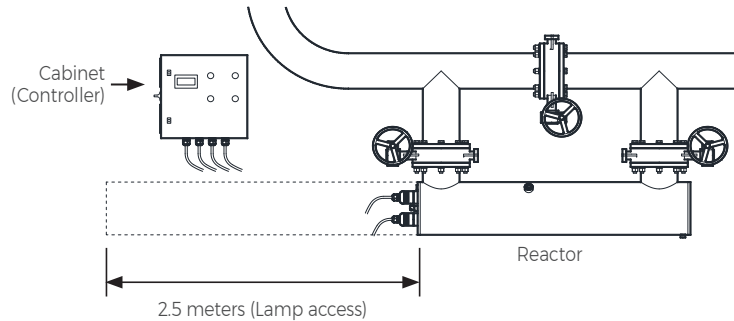
# Low Pressure Ultra Violet - MR-PP Series

Model No.	No. of Lamps	Power/ Lamps (W)	Inlet/Outlet	30mJ/cm <sup>2</sup> Max. Flow m <sup>3</sup> H	60mJ/cm <sup>2</sup> Max. Flow m <sup>3</sup> H	Reactor Length (mm)	Cabinet HMI	Cabinet Power (kW)	Cabinet Dimensions (mm)
MR1-350PP	1	350	DN100 / ANSI 4" Class 150	51.8	25.9	1820	LCD colour	0.4	400x600x210
MR3-350PP	3	350	DN150 / ANSI 6" Class 150	236.5	118.2	1820	4.3" display	1.1	500x700x300
MR4-350PP	4	350	DN150 / ANSI 6" Class 150	351	175.5	1820	4.3" display	1.5	500x700x300
MR6-350PP	6	350	DN200 / ANSI 8" Class 150	543	271	1820	4.3" display	2.3	500x700x300
MR8-350PP	8	350	DN250 / ANSI 10" Class 150	796	398	1820	4.3" display	3	500x700x300
MR12-350PP	12	350	DN250 / ANSI 10" Class 150	1215	607	1820	4.3" display	4.5	750x1000x320
MR16-350PP	16	350	DN300 / ANSI 12" Class 150	1605	802	1820	4.3" display	6	750x1000x320
MR18-350PP	18	350	DN300 / ANSI 12" Class 150	1805	902	1820	4.3" display	7	750x1000x320



1. Max. Flow for general disinfection calculated at UV95%, min. UV dose 30 mJ/cm<sup>2</sup> and 60 mJ/cm<sup>2</sup>. Contact Aquashi for flow rates of higher or lower UV dose.
2. Holes and connections of Reactor can change depending on reactor size and type.
3. Lamp access is important.

## Typical Installation




## Accessories (Spare Parts)



### UV Lamp

- \* UV-75 (for MR-75SS)
- \* UV-220 (for MR-220SS)
- \* UV-350 (for MR-350SS)

Ultra Violet System	MR Series	Model No. MR-PP	Rev. 1	
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