

# Low Pressure UV System - MR-SS Series

## Function

Low Pressure UV system stainless-steel series is a reliable, efficient UV system series for the disinfection of diverse industrial and municipal water applications. The electropolished stainless steel 316L reactor can be made in multiple configurations and be fitted for almost any applications requiring non-chemical UV disinfection. As reactors are electropolished inside out, they provide an additional 20% of energy efficiency due to internal reflection.

Both control cabinets and reactors are easily scalable and customizable to fit any project's requirements. MR-SS series comes with energy-efficient Low-Pressure High Output UV lamps with a guaranteed market-leading 16 000 hours lamp lifetime for 220 series and above.



## Specifications

### Reactor Material:

AISI316L stainless steel

### Orientation of Connections

U-type (other upon request)

### Temperature Protection (Optional)

pT-100 sensor

### UV sensor (Optional)

Önorm M5873 certified

### Quartz sleeve wiping system (optional)

Fully automated quartz sleeve wiping system  
Integrated servo motor

### Operating Pressure

up to 10 bar

### Installation

Vertical (min. ceiling height 2.5m)

Horizontal (1.2m service area)

### Controller type

Microprocessor / PLC

### Control Cabinet Material

GFRP

### Control cabinet Installation

Wall mounted

### Control cabinet Operating temp.

0 - 45 °C

### Control cabinet IP Class

IP 54 (optional IP 66)

### Lamp Cable length

3 meters (Max. 30 m)

### UV Lamp type

Low Pressure High Output amalgam  
Electronic HF Modbus

### UV Lamp life

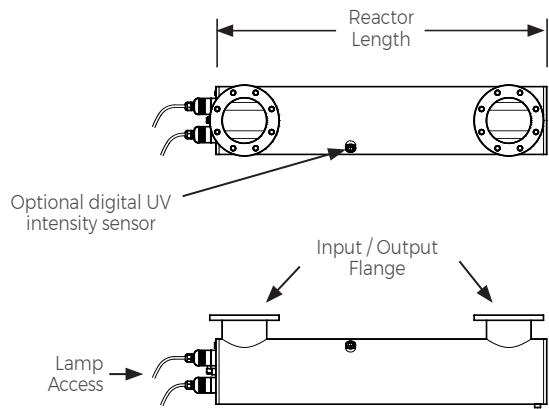
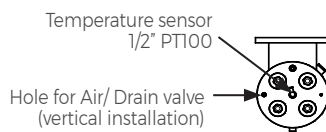
9000 - 16000 H

### SCADA

MODBUS (optional)

### Approvals

CE



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)
MR1-75SS	1	75	1.5" BSP (male thread)	7.6	3.8	1000	LCD colour	0.08	200x150x250
MR1-220SS	1	220	DN80 / ANSI 3" Class 150	39.9	19.9	1270	LCD colour	0.25	400x600x300
MR3-220SS	3	220	DN150 / ANSI 6" Class 150	184	92	1270	4.3" display	1	700x500x300
MR4-220SS	4	220	DN150 / ANSI 6" Class 150	282	141	1270	4.3" display	1	700x500x300
MR6-220SS	6	220	DN200 / ANSI 8" Class 150	439	219.3	1270	4.3" display	1.5	700x500x300
MR8-220SS	8	220	DN250 / ANSI 10" Class 150	669	334.5	1270	4.3" display	2	800x600x300

Ultra Violet System	MR Series	Model No. MR-SS	Rev. 2	
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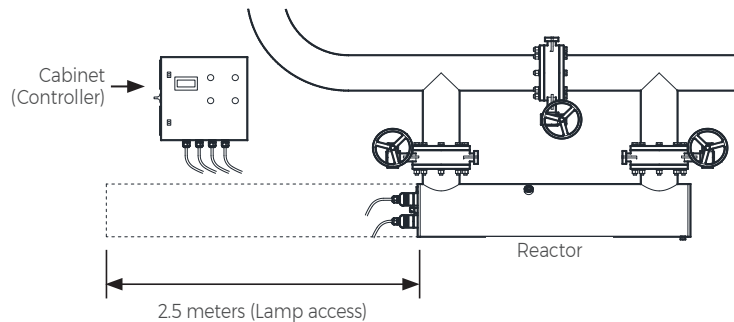
# Low Pressure Ultra Violet - MR-SS Series

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)
MR1-350SS	1	350	DN100 / ANSI 4" Class 150	61.5	30.7	1770	LCD colour	0.4	400x600x210
MR3-350SS	3	350	DN150 / ANSI 6" Class 150	294	147.3	1770	4.3" display	1.5	500x700x300
MR4-350SS	4	350	DN150 / ANSI 6" Class 150	452	226	1770	4.3" display	1.5	500x700x300
MR6-350SS	6	350	DN200 / ANSI 8" Class 150	700	350	1770	4.3" display	2.2	500x700x300
MR8-350SS	8	350	DN250 / ANSI 10" Class 150	4801	545.9	1770	4.3" display	3	500x700x300
MR12-350SS	12	350	DN250 / ANSI 10" Class 150	7570	861	1770	4.3" display	4.5	750x1000x320
MR16-350SS	16	350	DN300 / ANSI 12" Class 150	10270	1167	1775	4.3" display	6	750x1000x320

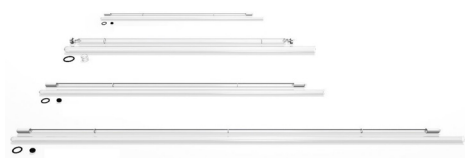


1. Max. Flow for general disinfection calculated at UV95%, min. UV dose 30 mJ/cm<sup>2</sup> and 60 mJ/cm<sup>2</sup>. Contact Aquashi for flow rates of higher or lower UV dose.
2. Holes and connections of Reactor can change depending on reactor size and type.
3. Lamp access is important.

## Typical Installation



## Accessories (Spare Parts)



### UV Lamp

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

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