

Low Pressure UV System (Stainless steel) - 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 electro-polished 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 electro-polished 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:

Stainless steel 316L
(1.4404 Super Duplex by request)

Orientation of Connections

U-type (other upon request)

Temperature Protection (Optional)

pT-100 sensor

UV intensity 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

Power Supply

230V AC / 400V AC, 50Hz - 60Hz

Controller type

Microprocessor / PLC

Cabinet Interface / HMI

Status indicators & Hour counter /
LCD colour / 4.3" display

Control Cabinet Material

GFRP

Control cabinet Installation

Wall mounted

Control cabinet Operating temp.

0 - 45 °C

UV Lamp failure indicator: Yes

UV Lamp power level indicator: Yes

UV Lamp lifetime monitoring: Yes

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)

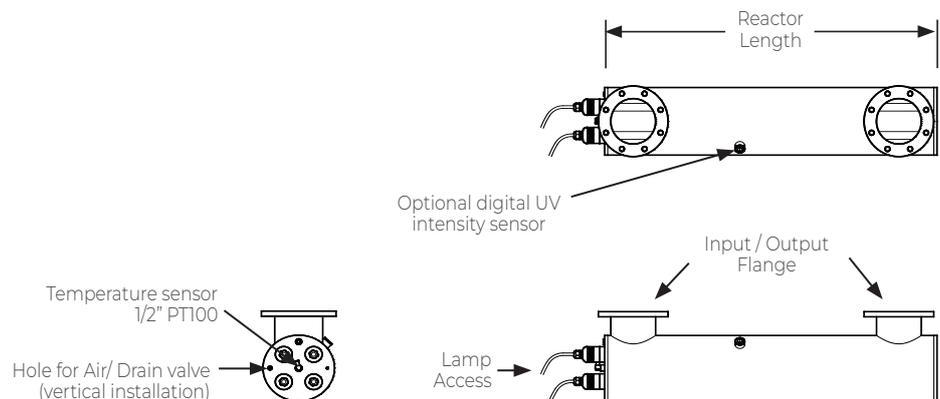
Approvals

CE

Protection

Reactor: IP68

Cabinet: IP54



Ultra Violet System	MR Series	Model No. MR-SS	Rev. 3	
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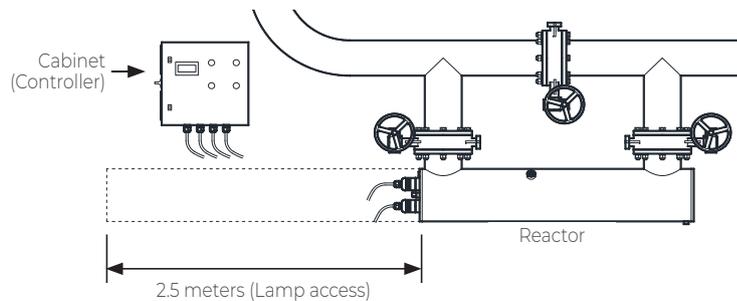
Low Pressure Ultra Violet (Stainless steel) - MR-SS Series

Model No.	No. of Lamps	Power/ Lamps (W)	Inlet/ Outlet	30mJ/cm ² Max. Flow m ³ /Hr	60mJ/cm ² Max. Flow m ³ /Hr	Reactor Length (mm)	Cabinet Power Supply (V AC)	Cabinet Power (kW)	Cabinet Dimensions (mm)
MR1-75SS	1	75	1.5" BSP (male thread)	7.6	3.8	1000	230	0.08	400x300x210
MR1-220SS	1	220	DN80 / ANSI 3"	39.9	19.9	1270	230	0.25	400x300x210
MR3-220SS	3	220	DN150 / ANSI 6"	184	92	1270	230	0.7	800x600x300
MR4-220SS	4	220	DN150 / ANSI 6"	282	141	1270	230	1	800x600x300
MR6-220SS	6	220	DN200 / ANSI 8"	439	219.3	1270	230	1.5	800x600x300
MR8-220SS	8	220	DN200 / ANSI 8"	669	334.5	1270	230	2	800x600x300
MR1-350SS	1	350	DN100 / ANSI 4"	61.5	30.7	1770	230	0.4	600x400x210
MR3-350SS	3	350	DN150 / ANSI 6"	294	147.3	1770	230	1.5	800x600x300
MR4-350SS	4	350	DN150 / ANSI 6"	452	226	1770	230	1.5	800x600x300
MR6-350SS	6	350	DN200 / ANSI 8"	700	350	1770	230	2.2	800x600x300
MR8-350SS	8	350	DN250 / ANSI 10"	4801	545.9	1770	400	3	750x1000x320
MR12-350SS	12	350	DN250 / ANSI 10"	7570	861	1770	400	4.5	750x1000x320
MR16-350SS	16	350	DN300 / ANSI 12"	10270	1167	1775	400	6	1000x1000x320
MR18-350SS	18	350	DN300 / ANSI 12"			1775	400	6.8	1000x1000x320
MR20-350SS	20	350	DN300 / ANSI 12"			1775	400	7.5	1000x1250x320



1. Max. Flow for general disinfection calculated at UV95%, min. UV dose 30 mJ/cm² and 60 mJ/cm². 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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