

## SPECIFICATIONS

### ULTRAAQUA ONE LAMP UV-SYSTEM MR1-75SS



# ULTRAAQUA

The ULTRAAQUA stainless steel series is a proven, extremely energy efficient solution for disinfection of most water applications or other fluids in very corrosive environments. More than 2000 ULTRAAQUA SS UV-systems have been installed worldwide.

#### 9000 hours lamp life time

The one lamp systems take advantage of the ULTRATHERM™ UV-lamp and lamp driver technology resulting in 9000 hours of lamp lifetime. Together with very high energy efficiency this ensures lowest possible operating costs.

#### Additional features

- AISI316L temperature sensor
- ÖNORM certified UV-intensity sensor (optional)

#### Reactor vessel

Reactor is made of high-grade AISI316L stainless steel. Internal electro-polishing adds up to 30% performance and increases corrosion resistance.

Reactors can be installed both vertically and horizontally. Service work including quartz sleeve and UV-lamp replacement is done without the need of any tools. Quartz sleeve can be cleaned in a few minutes. Quartz sleeve is typically cleaned every 6-12 months.

#### Control cabinet

Cabinet is designed for installation in industrial environments. Standard cabinet material for the one lamp systems is stainless steel. It has a user friendly menu driven touch display for easy access to settings and performance data. In addition, UV-lamp status can be monitored by large and very visible LED's. Control of lamp start and switch off as well as system state can be remotely controlled as standard.



Specifications for	MR1-75SS Ultraaqua UV-system Flow up to 8 m3/h
<b>Reactor</b>	
Reactor material	AISI316 Stainless steel
Reactor weight dry	4.6 kg
Reactor weight wet	10 kg
Reactor length	1000 mm
Connections	1½" BSP
Orientation of connections	U-type (same side, other upon request)
Number of UV-lamps	1
Temperature control	AISI316L
UV sensor (optional)	Digital SiC ¼"
Manufactured in	Denmark
<b>Control cabinet</b>	
HMI	Four line LCD with colored back light for state indication
Controller type	Microprocessor
Material	Stainless steel / carbon fiber reinforced plastic
Installation	Wall mount
Cabinet dimension	200x150x250 mm
Cabinet weight	3 kg
Lamp cable length	3.5m (max length 30.0m)
Lamp cable type	Silicon (DIN VDE 0295 /UL Style 4476)
Power supply	1X230V+N+Pe +/- 10% , 47 – 63 Hz
Power	0.08kW
Max fuse	1.25 A
Thermal control	Fan or passive (depending on ambient temperature)
Operating temperature	0 °C to +40 °C
Rel. humidity	20-95% non-condensing
IP Class	54 (Option IP66)
Approval	CE
Manufactured in	Denmark
<b>UV lamps</b>	
Lamp type	Low pressure high output amalgam
Lamp power pr. Lamp	75W
UV efficiency	35%
Lamp lifetime	9000H
Wire coating	Teflon
<b>Control features</b>	
Lamp dimming	60% (UV-dose)
Lamp state indication	LEDs
Accessible information	Reactor temperature
	Lamp hours
	Individual lamp state
	Individual lamp driver state
	Individual lamp electrical data
	Individual lamp driver temperature
	Individual lamp driver power input
	Remote control state
<b>Alarms</b>	
	Reactor temp. pre- and main
	Lamp state alarms
	Lamp driver state alarms
<b>Digital inputs</b>	
	Remote ON/OFF
<b>Digital outputs</b>	
	Main alarm

	Lamps ON signal
PLEASE NOTE: ULTRAAQUA UV-systems can be customized to fit any requirement. This include both reactors and control units.	

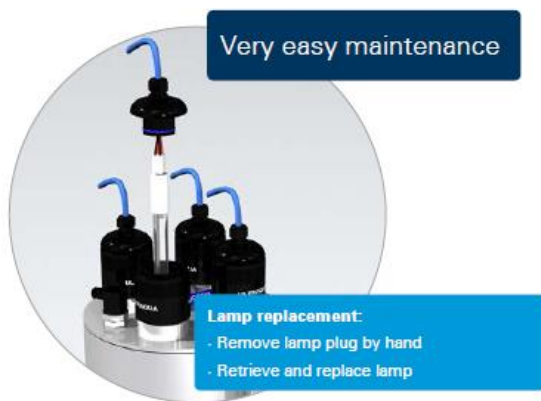
## MR1-75 SS

Vers 01\_08\_13, 1:5 at ISO A4, 23.11.12

REACTOR BODY:



Technical information on MR1-75SS



ÖNORM certified UV-sensor

Both reactor and control cabinet can be customized to fit almost any requirements. Please contact ULTRAAQUA or any representative for more information.

### Manufacturer

All ULTRAAQUA UV-systems are manufactured and factory acceptance tested by ULTRAAQUA A/S in Denmark using the stringiest quality measures.

### Warranty

2 years from date of invoice.

(SPECIFICATIONS ARE SUBJECT TO CHANGE)