

# DATASHEET RW MIII

## A. DIMENSIONS

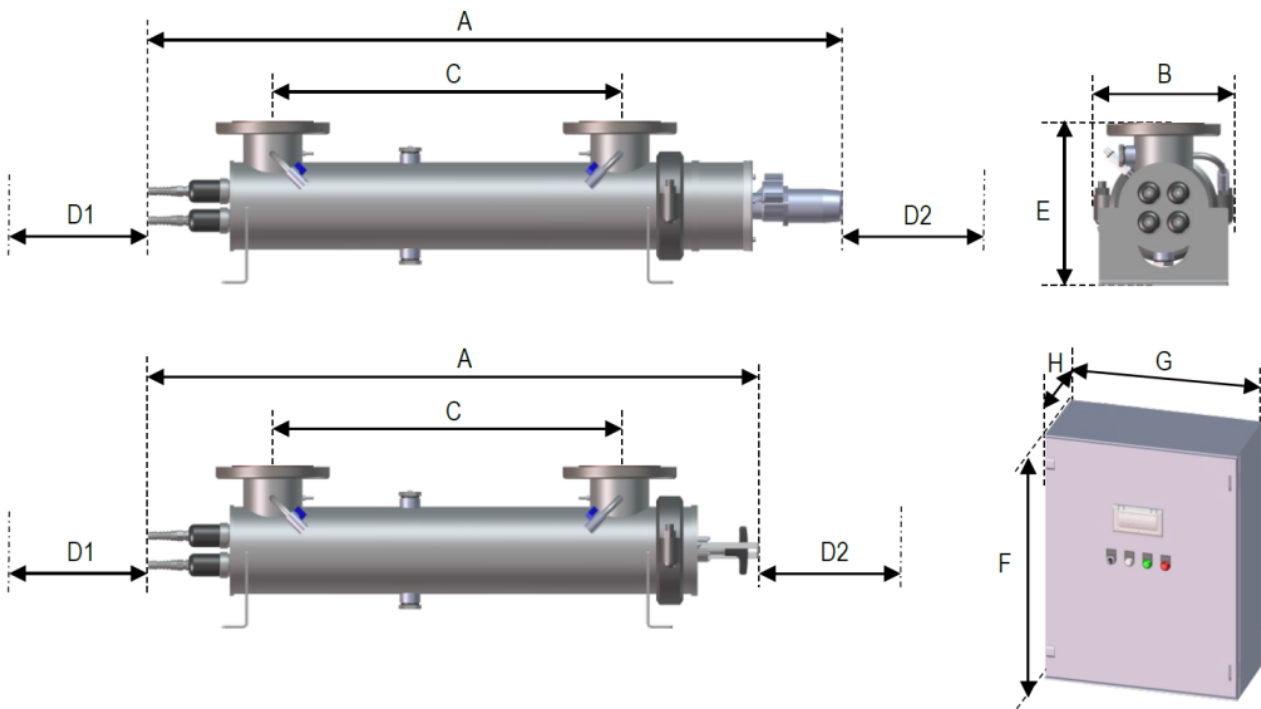


Image non-contractual.

Designation	Unit	RW4168 120W NM	RW4168 120W NA	RW4168 170W NM	RW4168 170W NA	RW4219 300W NM	RW4219 300W NA
<b>REACTOR</b>							
A) Full length	mm	1182	1342	1178	1339	1401	1562
B) Width	mm	270	270	270	270	343	343
C) Fixation spacing	mm	670	670	670	670	783	783
D1) Service space	mm	850	850	850	850	1200	1200
D2) Service space	mm	750	150	750	150	900	150
E) Depth	mm	313	313	313	313	418	418
Type of connection	-	Flanges	Flanges	Flanges	Flanges	Flanges	Flanges
Connection	-	DN100	DN100	DN100	DN100	DN150	DN150
Position I/O	-	U	U	U	U	U	U
<b>CABINET</b>							
F) Height	mm	757	757	757	757	847	847
G) Width	mm	536	536	536	536	636	636
H) Depth	mm	300	300	300	300	300	300

## B. GENERAL DESCRIPTION

Designation	Unit	RW4168 120W NM	RW4168 120W NA	RW4168 170W NM	RW4168 170W NA	RW4219 300W NM	RW4219 300W NA
Certifications / Approvals	-	CE	CE	CE	CE	CE	CE
<b>ENVIRONMENT OF USE</b>							
Place	-	Local free from frost and rain	Local free from frost and rain	Local free from frost and rain	Local free from frost and rain	Local free from frost and rain	Local free from frost and rain
Minimum ambient Temperature	°C	+5	+5	+5	+5	+5	+5
Maximum ambient Temperature	°C	+40	+40	+40	+40	+40	+40
Maximum relative humidity	-	80% non condensating	80% non condensating	80% non condensating	80% non condensating	80% non condensating	80% non condensating
<b>WATER QUALITY</b>							
Water Temperature	°C	+10 to +35	+10 to +35	+10 to +35	+10 to +35	+10 to +35	+10 to +35
Transmittance range	-	50 to 80%	50 to 80%	50 to 80%	50 to 80%	50 to 80%	50 to 80%
<b>REACTOR</b>							
Material	-	SS316L	SS316L	SS316L	SS316L	SS316L	SS316L
Finishing	-	Sand Blasted	Sand Blasted	Sand Blasted	Sand Blasted	Sand Blasted	Sand Blasted
Volume	l	19	19	17	17	37	37
Weight	kg	41	45	41	45	61	63
Drain at high point (cap)	-	1"	1"	1"	1"	1"	1"
Drain at low point (cap)	-	1"	1"	1"	1"	1"	1"
Inlet/Outlet chemical cleaning	-	1"	1"	1"	1"	1"	1"
Sampling valves sterilizable	-	Upstream downstream	Upstream downstream	Upstream downstream	Upstream downstream	Upstream downstream	Upstream downstream
Max Service Pressure	bar	10	10	10	10	10	10
Standard mounting	-	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal
Feet	-	Included	Included	Included	Included	Included	Included
<b>CABINET</b>							
Material	-	Polyester	Polyester	Polyester	Polyester	Polyester	Polyester
Cabinet/Reactor cable length	m	10m	10m	10m	10m	10m	10m
Weight	kg	38	38	38	38	50	50
Power of the cleaning motor	W	Not concerned	45	Not concerned	45	Not concerned	45
Rotation speed	rd/min	Not concerned	32	Not concerned	32	Not concerned	32
Power supply	V	220-240	220-240	220-240	220-240	220-240	220-240
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
Amperage	A	2.34-2.15	2.55-2.34	3.32-3.04	3.52-3.23	5.27-4.83	5.48-5.02
Cable Type/Gauge	mm <sup>2</sup>	3G1,5	3G1,5	3G1,5	3G1,5	3G1,5	3G1,5
Power	W	505	550	716	761	1137	1182
Differential protection	-	30 mA	30 mA	30 mA	30 mA	30 mA	30 mA
Protection	A	10	10	10	10	10	10
Trigger curve	-	C	C	C	C	C	C
Ingress Protection	-	IP65	IP65	IP65	IP65	IP65	IP65
<b>UV LAMPS</b>							
Number of lamps	-	4	4	4	4	4	4
Power unitary	W	120	120	170	170	270	270
Type of lamp	-	Amalgam	Amalgam	Amalgam	Amalgam	Amalgam	Amalgam
UV Power unitary	W	37	37	56	56	85	85
Total UV Power	W	148	148	224	224	340	340
Lifetime	h	16 000	16 000	13 000	13 000	13 000	13 000

## C. MONITORING



Designation	
Interface	Millenium III
Voltage indicator	White indicator of voltage presence in the control cabinet.
Lamp indicator	Green LED indicating that all lamps are in operation.
Main alarm indicator	Red LED indicating a device fault.
Section switch	Isolates the device from the mains.
ON/OFF Switch	Switch to turn the unit on and off.
Remote (ON/OFF lamps)	Allows remote control of the device with a potential free switch.
Screens	Radiation UVC in W / m <sup>2</sup> , Reactor temperature in ° C (Optional), System hour meter, System start counter, Power regulation level, System status (On-Off, Pre-alarm, Alarm)
Stainless steel UV sensor	Reads the UVC radiation of the device.
4-20mA Output UV irradiance	4-20mA output signal copying the UV sensor, 0 W / m <sup>2</sup> = 4mA, Sensor Caliber = 20mA
Input Flow 4-20mA	Used to retrieve the flow value in the device (Customer Flow Meter).
Main-alarm dry contact	Potential-free alarm contact combining the UV alarm and overheating reactor (Option). The contact opens when the UV level is too low or the reactor overheats (Option).
Pre-alarm dry contact UV irradiance	Pre-alarm UV contact free of potential. The contact opens in case of low UV level.
Lamp alarm dry contact	Contact defect lamp (s) free of potential. The contact opens when the lamp is stopped during operation.
Data outputs contact	150Vdc, 250Vac, 5A
<b>DIMMING MODES</b>	
Auto/UV Dimming	Adapts the power of the lamps according to the UV radiation read by the sensor.
Auto Flow/UV Dimming	Adapts the power of the lamps according to the UV radiation read by the sensor correlate to the flow rate given by the flow meter of the customer.

## D. POSSIBLE OPTIONS

Designation	RW4168 120W NM	RW4168 120W NA	RW4168 170W NM	RW4168 170W NA	RW4219 300W NM	RW4219 300W NA
PN 16 bars	OPT008862	OPT008862	OPT008862	OPT008862	OPT008862	OPT008862
I / O position modification	OPT008869	OPT008869	OPT008869	OPT008869	OPT008869	OPT008869
Low purge valve	OPT008870	OPT008870	OPT008870	OPT008870	OPT008870	OPT008870
Measuring window and Õnorm sensor	OPT008872	OPT008872	OPT008872	OPT008872	OPT008872	OPT008872
<b>ACCESSORIES - Protection covers are mandatory for outdoor reactor installations, except in service room.</b>						
lamp protection cover	ASM014344	ASM014344	ASM014344	ASM014344	ASM014345	ASM014345
Motor cleaning protection cover	-	ASM014344	-	ASM014344	-	ASM014345
Protection cover for UV sensor, temperature and limit switch	ASM007530	ASM007530	ASM007530	ASM007530	ASM007530	ASM007530