

PRODUCT DATA SHEET

UV Sterilisation (UV)

water | wastewater | sewage



OVERVIEW

MAK Water's UV Sterilisation (UV) systems are an effective and economical means for disinfection of water. UV sterilisation instantly kills bacteria, parasites and viruses by passing the water past an Ultra Violet light source, which damages the DNA of these organisms.

UV sterilisers should be installed as close as possible to the point of end use, as the effect of a UV steriliser is only temporary – the water may become re-contaminated when stored in tanks or even in pipe work downstream of a UV steriliser.

MAK UV systems are designed to deliver a UV dose > 40 mJ/cm² @ 95% Ultra Violet Transmittance (UVT). The MAK UV systems are available as skid mounted units or as an addition to containerised water treatment systems.



STANDARD SPECIFICATIONS

Parameter	Units	UV-2	UV-5	UV-7.5	UV-10	UV-20	UV-50
Flow Rate	m ³ /hr	0.5 ~ 4.5	3.2 ~ 8.4	1.8 ~ 9.0	2.1 ~ 13.62	4.0 ~ 24.0	6.0 ~ 66.7
Pressure Drop at Peak Flow	kPa	18	25	20.7	17.3	<15	<15
Maximum Operating Pressure	kPa	862	862	862	862	1600	1600
Number of Lamps	-	1	1	1	1	1	2
Standard Chamber Material	-	SS304	SS304	SS304	SS304	SS304	SS304
Raw Water Temperature	°C	15 ~ 40	15 ~ 40	15 ~ 40	15 ~ 40	15 ~ 50	15 ~ 50
Ambient Design Temperature	°C	5 ~ 50 (-15 ~ 50 for insulated containerized system)					
Power Supply	-	AC 240 V, 1 Phase, 50/60 Hz					
Power Consumption	W	46	52	73	88	220	440

*Refer UV Testing Results, based on removal of free-floating oils and grease.

STANDARD INCLUSIONS + OPTIONS

Equipment	UV-2	UV-5	UV-7.5	UV-10	UV-20	UV-50
Touchpad Operator Control	✓	✓	✓	✓	✓	✓
Lamp Run Hour meter	✓	✓	✓	✓	✓	✓
Visual Alarm / Failure Status	✓	✓	✓	✓	✓	✓
UV System ON/Off Status	✓	✓	✓	✓	✓	✓
Volt Free Contacts for Common Alarm	–	✓	✓	✓	✓	✓
Chamber Temperature Monitoring	–	✓	✓	✓	0	✓
Skid Mounted with Isolation Valves	0	0	0	0	0	0
Upgrade Chamber Material to SS316	–	0	0	0	0	0
4-20 mA UV Intensity Output	–	–	–	–	0	0
Remote On/Off Input	–	–	–	–	0	0
Automatic Cleaning with Status/Alarm Output	–	–	–	–	0	0
PLC Control System with HMI	–	–	–	–	0	0

✓ = Standard Supply
 0 = Optional Supply
 – = Not Applicable

NEED A QUOTE?

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MODEL SELECTION

0002 2.0 m³/hr flow rate
0005 5.0 m³/hr flow rate
0007 7.5 m³/hr flow rate
0010 10 m³/hr flow rate
0020 20 m³/hr flow rate
0050 50 m³/hr flow rate
XXXX Custom flow rate

XX Supply Only

SM Skid Mounted with Isolation Valves

X Chamber Material SS304

C Chamber Material SS316

X UV Intensity Output - Without

U UV Intensity Output - With

X Automatic Cleaning - Without

A Automatic Cleaning - With

X PLC Control System - Without

P PLC Control System - With



UV

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Disclaimer: MAK Water is continuously updating and improving its products and services, so please contact us for more detailed information or to confirm specifications. MAK Water takes no responsibility for any errors resulting from the use of information contained within this document.

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