

The UV-100 OP/MB40 offers maximum operational safety through the ability to monitor temperature, UV intensity, and functionality via the blue backlit OP-162 operation panel. Designed for seamless integration into point-of-entry (POE) and point-of-use (POU) applications, it adapts effortlessly to diverse environments, including homes, healthcare facilities, industrial operations.

Highlights:

- Integrated flow sensor
- Integrated pre-filter housing
- Intelligent control and monitoring via CPU-monitored LED function
- Status messaging via operation panel and acoustic signaling
- BUS ready

Technical Data	
Flow rate (max.)	40 l/min (10,6 GPM)
Operating pressure (max.)	6,9 bar / 100 psi
Service life (LED)	10,000 h (operating mode)
Ambient temp. (max.)	0 - 35 °C / 32 - 95 °F
Recommended water temp.	0 - 40 °C / 32 - 104 °F
Supply voltage	23 - 25 VDC
Power (max.)	38 W
Water connection In/Out	IN: G 1" (Inner Thread) OUT: G 1" (Outer Thread)
Materials in contact with water	Housing: PP Chamber: PTFE Sealing: EPDM Plate: Quartz Screws: SUS 304 Glue: DOWSIL 732 NSF51/61 FDA Metal plate: SUS 304
Wavelength	265 nm ± 5

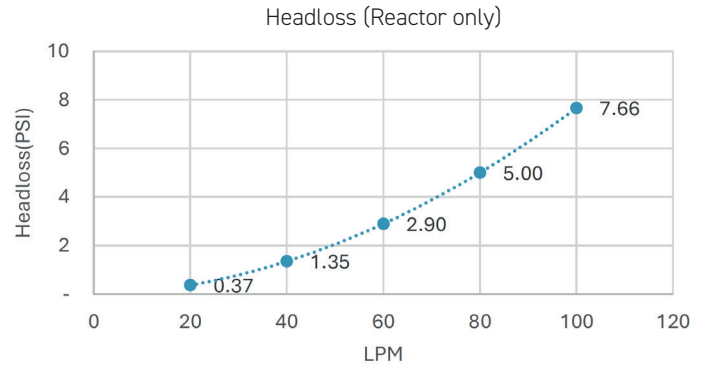
Table 1: Technical Data

Flow Rate	Dose	Disinfection Performance
30 l/min	40 mJ/cm²	≥ 99,999 % ¹
50 l/min	25 mJ/cm²	≥ 99,99 % ¹
100 l/min	12 mJ/cm²	≥ 99,9 % ¹

¹ E.Coli reduction, measured at turbidity < 1 NTU and UVT >98%

Table 3: Dose

Performance



Note: headloss varies depending on the installed pre-filter. Please see the corresponding data sheet of the filter cartridge and housing

Chart 1



Image 1: UV-100 OP/MB40

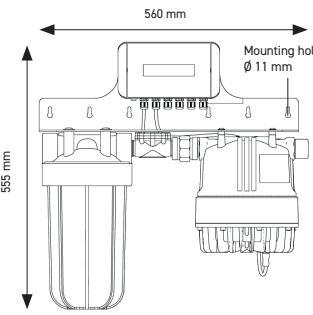
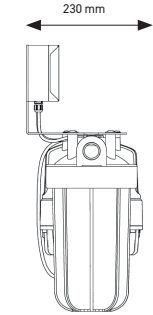
Weight & Dimensions	
Front view	Side view
	
Weight	10,8 kg
Dimensions (H x W x D)	555 x 560 x 230 mm

Table 2: Weight & Dimensions

Operating & Ambient Conditions		
Ambient temp. stockage, transport	min. 0 °C / 32 °F	max. 60 °C / 140 °F
Ambient temp. operating mode	min. 0 °C / 32 °F	max. 35 °C / 95 °F
Humidity operating mode	min. 20 %	max. 80 %

Table 4: Operating & Ambient Conditions

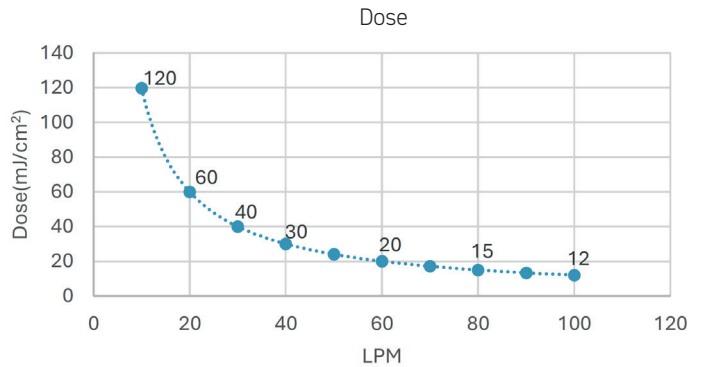


Chart 2

Terminal Block Assignment

Terminal block J1

Terminal	Function	Input / Output	Level
1	5 V power supply for flow sensor 2 / switch 2	Output	5 V
2	Signal from flow sensor 2 / switch 2	Input	0 V / 5 V
3	GND for flow sensor 2	Output	GND
4	Analog flow rate	Output	0 -10 V
5	GND analog flow rate	Output	GND

Table 5: Terminal Block J1

Terminal block J2

Terminal	Function	Input / Output	Level
1	5 V power supply for flow sensor 1 / switch 1	Output	5 V
2	Signal from flow sensor 1 / switch 1	Input	0 V / 5 V
3	GND for flow sensor 1	Output	GND
6	Changeover relay 1 (potential-free contact) for status signal (normal operation / issues); NO contact		max. 5 A / 250 V AC
7	Changeover relay 1 (potential-free contact) for status signal (normal operation / issues); COM contact		max. 5 A / 250 V AC
8	Changeover relay 1 (potential-free contact) for status signal (normal operation / issues); NC contact		max. 5 A / 250 V AC

Table 6: Terminal Block J2

Set Content

Art. No.: UV-100-ISTS-OP-MB40
 (1x Reactor UV-100, 1x Connecting Cable (100cm))
 Art. No.: HW-UV-100-VA
 (Stainless-steel wall mounting adapter)
 Art. No.: UV-100-OP-162
 (Operation Panel)
 FG10BPP
 (Filter-Housing)

Terminal block J3

Terminal	Function / Color	Input / Output	Level
1	Power supply reactor 24 V (RD)	Output	23 - 25 V
2	Power supply reactor GND (BK)	Output	GND
3	Relay contact 1 (BU)		
4	Relay contact 2 (WH)		
5	Status signal (normal operation / issues)	Input	0 - 5 V
7	Power supply 24 V	Input	24 V
8	Power supply GND	Input	GND

Table 7: Terminal Block J3

Optional Connection (ComX Communication)

M1: Slot for a Hilscher ComX module
X3: USB port for programming the Hilscher ComX module

Accessoires

Different types of filter cartridges available