

# DATASHEET BMP

## A. DIMENSIONS

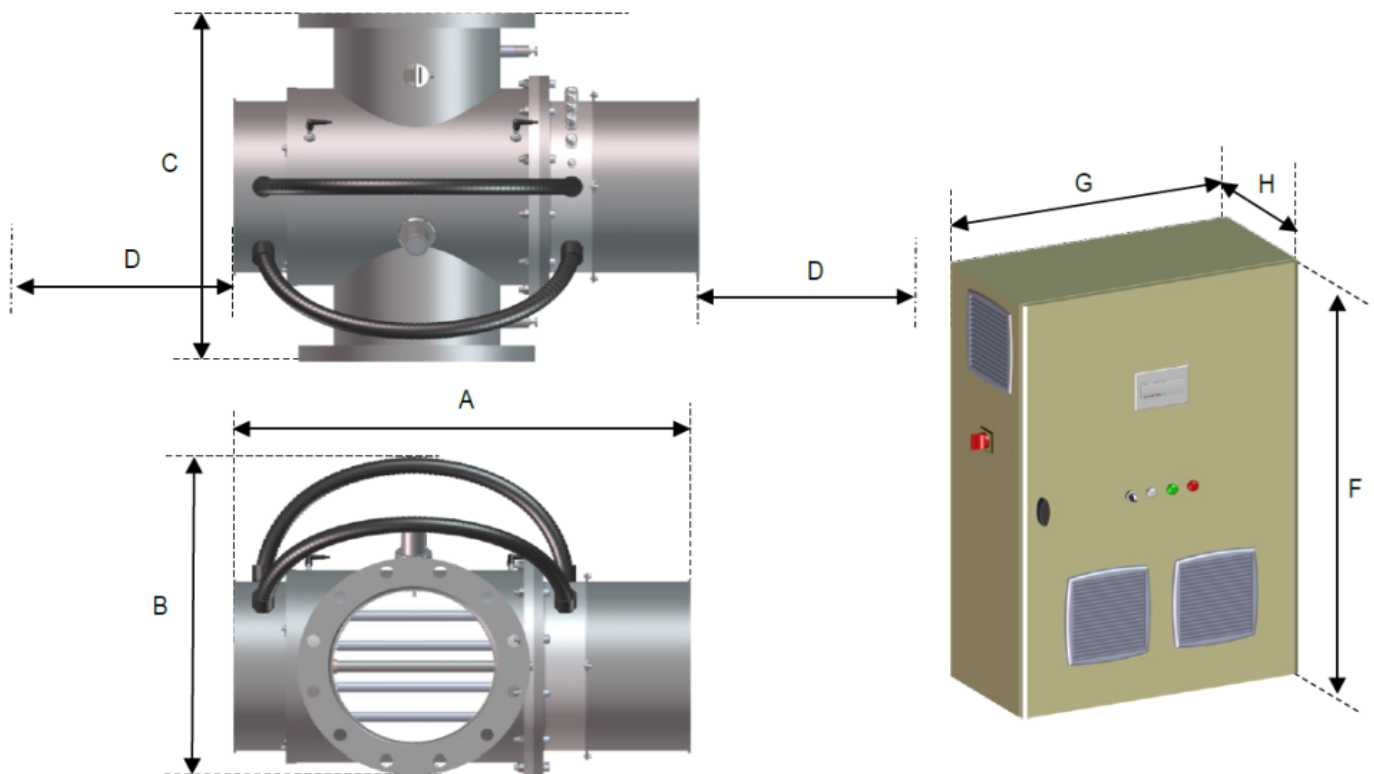


Image non-contractual.

Designation	Unit	BMP 118	BMP 440
<b>REACTOR</b>			
A) Full length	mm	456	906
B) Height	mm	332	674
C) Fixation spacing	mm	528	720
D) Service spacing	mm	300	300
Type of connection	-	Flanges	Flanges
Connection	-	DN125	DN300
Position I/O	-	In line	In line
<b>CABINET</b>			
F) Height	mm	600	1200
G) Width	mm	600	800
H) Depth	mm	300	400

## B. GENERAL DESCRIPTION

Designation	Unit	BMP 118	BMP 440
Certifications / Approvals	-	CE, Önorm, ACS	CE, Önorm, ACS
<b>ENVIRONMENT OF USE</b>			
Place	-	Local free from frost and rain	Local free from frost and rain
Minimum ambient Temperature	°C	+5	+5
Maximum ambient Temperature	°C	+40	+40
Maximum relative humidity	-	80% non condensating	80% non condensating
<b>WATER QUALITY</b>			
Water Temperature	°C	+0 to +40	+0 to +40
Standard Transmittance on 10mm	-	98%	98%
<b>REACTOR</b>			
Material	-	SS316L	SS316L
Finishing	-	Sand Blasted	Sand Blasted
Weight	kg	22	133
Pickling / passivation	-	Included	Included
Drain in high point	-	Yes	Yes
Drain in low point	-	Yes	Yes
Flowmeter	-	Yes	Yes
Max Service Pressure	bar	10	10
Standard mounting	-	Horizontal Vertical	Horizontal Vertical
<b>CABINET</b>			
Material	-	Painted steel	Painted steel
Cabinet / reactor cable length	m	10	10
Weight	kg	44	140
Cabinet ventilating	-	Yes	Yes
Ventilation filter	-	grid	grid
Power supply	V	220-240	380-415
Frequency	Hz	50/60	50/60
Cable Type/Gauge	mm <sup>2</sup>	3G2.5	5G6
Section of the earth cable	mm <sup>2</sup>	6	6
Amperage	A	8.79-8.06	36.43-33.35
Power	W	1895	15663
Differential protection	-	30 mA	30 mA Type G
Magnetohermic protection	-	16A 2P	40A 4P
Trigger curve	-	Curve C	Curve D
Ingress Protection	-	IP54	IP54
<b>UV LAMPS</b>			
Number of lamps	-	1	4
Power unitary	W	1800	3720
Type of lamp	-	Medium pressure	Medium pressure
UV Power unitary	W	270	580
Total UV Power	W	270	2320
Lifetime	h	9 000 to 12 000	9 000 to 12 000

## C. MONITORING

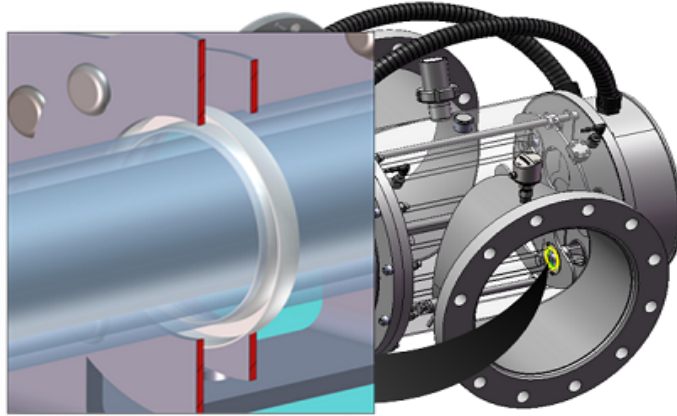


Designation	
Interface	Millenium III
Voltage indicator	White indicator of voltage presence in the control cabinet.
Lamp indicator	Green LED indicating that all lamps are in operation.
Main alarm indicator	Red LED indicating a device fault.
ON/OFF Switch	Switch to turn the unit on and off.
Remote (ON/OFF lamps)	Allows remote control of the device with a potential free switch.
Flow detector	Allows detection of the presence of flow in the device and allows the start of the lamps.
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)
Onorm UV sensor with measurement window	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
Main-alarm dry contact (UV main alarm included)	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.
Pump dry contact	Contact allowing the circulation of water when the necessary UV dose is reached.
Data outputs contact	150Vdc, 250Vac, 5A

## D. POSSIBLE OPTIONS

Designation	BMP 118	BMP 440
Temperature sensor + 4-20mA Output	OPT003716	OPT003716
PN16	Yes	Yes

## E. CLEANING SYSTEM OF QUARTZ SLEEVES



### CLEANING WITH SCRAPER

Auto with motor:

The automatic cleaning system is designed to reduce the formation of organic and inorganic deposits on quartz sleeves.

It uses reinforced Teflon rings mounted on a stainless steel trolley to scrape the surface of the quartz sleeves of each lamp.

The automatic system ensures the cleaning at predetermined and configurable intervals by means of a trapezoidal screw driven by an electric motor by performing a round trip all along the quartz sleeves.

Unlike chemical cleaning, scraping operations that do not require lamp shutdown and hydraulic isolation of the UV reactor are carried out during operation of the UV device.

Benefits:

The cleaning system minimizes the fouling of the quartz sleeves.

Provides a constant UV dose.

Operates in line while lamps perform disinfection, thus reducing downtime.

Can be set to clean lamp sleeves at adjustable intervals of one hour (Auto only).

Manual cleanings with chemical cleaning agents previously frequent become exceptional.