

Disinfection of a 120 m3 storage tank using our Microspear®40 and Microfloat®3.1 technologies.



MPC

UV Technology

MPC Registered Office

53, Cours Aristide Briand
69300 Caluire-et-Cuire

+33 (0)4 72 71 71 83

mpc@mpc-web.com

MPC - Micropulse plating concepts

www.mpc-uv.com

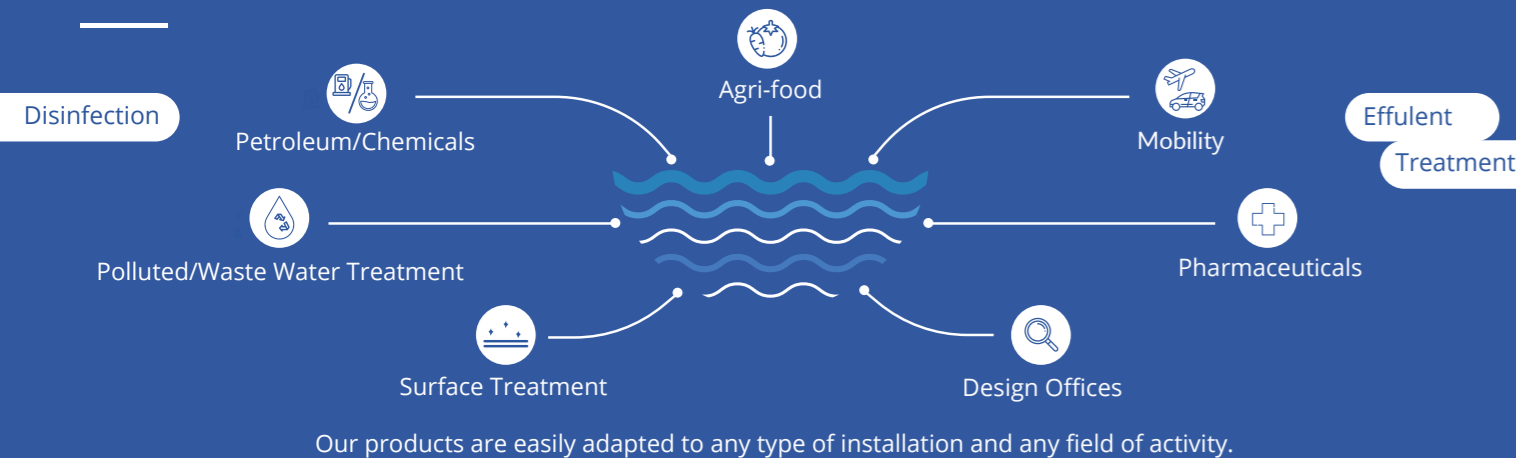
MPC
MICROPULSE PLATING CONCEPTS
Analyser - Dépolluer - Valoriser



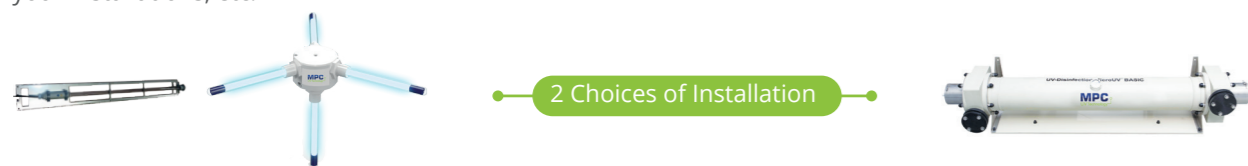
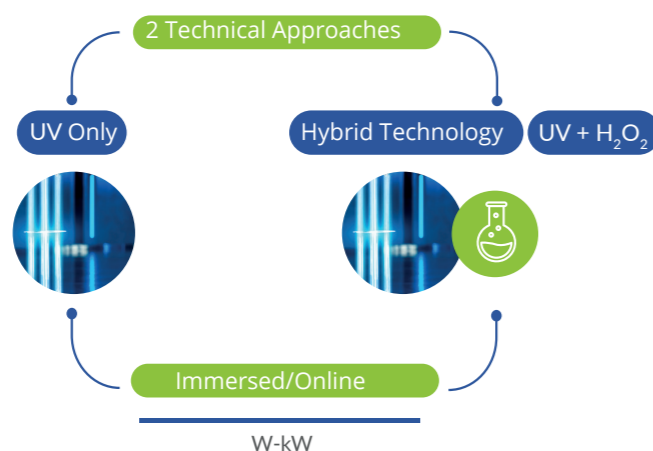
MPC

UV Technology

Our Areas of intervention



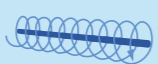
- ✓ Ultraviolet (UVC) disinfection is an ecological and neutral technology.
- ✓ The lamps emit at the optimal wavelength of 254 nm, which breaks down the DNA of bacteria. This technology can be an alternative or a complement to the use of biocides.
- ✓ The effectiveness of UVc depends on several factors: water quality (city water, borehole water, softened water, etc.), flow rate, UVc power delivered and contact time.
- ✓ There are different possible disinfection methods: submerged (in the basin or tank) or in-line (outside of the system). MPC will be happy to advise you on the approach best suited to your constraints, the specifications of your installations, etc.



	MS 15	MS 40/120	MF 3.0 3.1
Bracket with cage	X	X	X
Mounting cable + support	X	X	X
Mounting tube	X	X	X
Level controller	X	X	X
Cable length		20m ou 30m	

+ Our Advantages That Make a Difference:

- ✓ Adaptation of the size of the reactor to your needs
- ✓ Our exclusive ROTACLEAN® system equipped in our MicroUV® reactors generates a helical flow that optimises contact and UVc radiation



The Advantages of Submerged Solutions

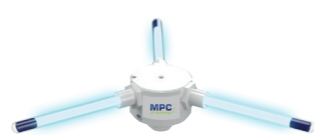
- ✓ Maximum exposure time
- ✓ Degraded mode possible
- ✓ 360° disinfection
- ✓ Economical
- ✓ Easy adaptation / not bulky

The Advantages of "Online" Solutions

- ✓ Variable power up to custom-fit
- ✓ Simplified maintenance and installation
- ✓ Easy adaptation
- ✓ Not bulky
- ✓ Resumption of circulation pumps

Microfloat®

Our Microfloat® are developed to be integrated directly into the tanks. This allows for a prolonged contact time for increased efficiency. Microfloat® allows 360° disinfection below and above the water level. There are two versions, which makes it possible to adapt to all types of configurations, with open or closed tanks. Our floating system is independent and regulates itself according to the water level.



MF 3.0

Dimensions	LxlxH (mm)
Lamp (+O-ring)x3	265 x 20Ø
Quartz tube x3	345 x 32Ø
Power cable	10m
Microfloat®	120 x 580Ø

Technical Characteristics

Power supply	230 V
Input	30 V
Power	3 x 15 W
Useful life	8000 h



MF 3.1

Dimensions	LxlxH (mm)
Lamp (+O-ring)x3	265 x 20Ø
Quartz tube x3	345 x 32Ø
Power cable	10m
Microfloat®	390 x 580Ø

Technical Characteristics

Power supply	230 V
Input	30 V
Power	4 x 15 W
Useful life	8000 h

- ✓ Possibility of adding an electrical cabinet or connecting to an existing cabinet.

Basic UV Reactors

Our MicroUV® solutions adapt to your objectives to treat a very wide range of flow rates (1 to 1000 m³/h) and a wide spectrum of solutions. They serve to disinfect industrial process water (rinsing, washing, recycling, etc.), water before discharge or even storage water. You can connect our reactors to your electrical cabinets (with dedicated ballasts) or we can provide you with a "turnkey" system (cabinet + installation).



MicroUV® B5

Dimensions	LxlxH (mm)
Lamp (+O-ring)	860 x 20Ø
B5 reactor	1120x200x300
Ø (mm)	140

Technical Characteristics

Electrical connection	230 V / 50 Hz
Lamp power	120 W
Useful life	8000 h
Ambient temperature	5C° / 40C°
Flow (min./max.)	1 à 7 m ³ /h
Flow (min./max.)	2,5 m ³ /h à 7 m ³ /h



MicroUV® B10

Dimensions	LxlxH (mm)
Lamp (+O-ring)	1 500 x 25Ø
B10 reactor	1840 x 270 x 300
Ø (mm)	140

Technical Characteristics

Electrical connection	230 V / 50 Hz
Lamp power	200 W
Useful life	8000 h
Ambient temperature	5C° / 40C°
Flow (min./max.)	1 à 12 m ³ /h
Flow (min./max.)	5 à 12 m ³ /h



MicroUV® B20

Dimensions	LxlxH (mm)
Lamp (+O-ring)	1 500 x 25Ø
B20 reactor	1840 x 270 x 300
Ø (mm)	140

Technical Characteristics

Electrical connection	230 V / 50 Hz
Lamp power	300W
Useful life	8000 h
Ambient temperature	5C° / 40C°
Flow (min./max.)	1 à 27 m ³ /h
Flow (min./max.)	5 à 27 m ³ /h



Microspear® (fixed)

Our Microspear® are designed to be integrated directly into baths and tanks. This allows for extended contact time for increased efficiency. Microspear® allows disinfection below the water level. There are three versions (from 15 W to 120 W) to adapt to all types of configurations. Our fixed system is independent and submerged.



MS 15

Dimensions	LxlxH (mm)
Lamp (+O-ring)	265 x 20Ø
Quartz tube	345 x 32Ø
Bracket (closed)	540 x 120 x 65
Power cable	20m/30m

Technical Characteristics

Power supply	230 V
Input	30 V
Power	15 W
Useful life	8000 h



MS 40

Dimensions	LxlxH (mm)
Lamp (+O-ring)	860 x 20Ø
Quartz tube	960 x 32Ø
Bracket (closed)	1140 x 120 x 65
Power cable	20m/30m

Technical Characteristics

Power supply	230 V
Input	30 V
Power	40 W
Useful life	8000 h



MS 120

Dimensions	LxlxH (mm)
Lamp (+O-ring)	860 x 20Ø
Quartz tube	960 x 32Ø
Bracket (closed)	1140 x 120 x 65
Power cable	20m/30m

Technical Characteristics

Power supply	200-250 V; 50-60 Hz
Input	100 V
Power	120 W
Useful life	8000 h

- Our UV lamp solutions can be used by combining Microspear® with one or more Microfloat® to optimise disinfection.

Stainless Steel UV Recators

The stainless steel reactor range can respond to a wider spectrum of issues and be used in specific sectors (food industry, chemistry, pharmaceuticals, etc.) and difficult conditions (T°C, pressure, material compatibility, etc.). It can also be used for the production of ultra-pure water and equipment protection (osmosis, filtration, etc.). Advantage: approval of material and UV sanitary conformity for water purification (spring water, borehole water).

Range: reuse, industrial, low flow rates...

Technical Characteristics

Flow	de 0,5 à 2 200m ³ /h
Lamp power	de 20 à 600 W
Lamp useful life	de 8 000 à 16 000h (1 à 2 ans)

Industrial range options:

- Types of fixing
- Connection flanges
- Purge
- Etc...



Stainless steel range: ACS materials / UV

Caractéristiques Techniques

Flow	de 0,5 à 1 000m ³ /h
Lamp power	de 20 à 600 W
Lamp useful life	de 8 000 à 16 000h (1 à 2 ans)

