

VERSATILE DEPLOYMENT FOR ANY MISSION

Ways to use DCSBD decontamination

Handheld & portable

Stationary decontamination modules — personnel and small surfaces.

Mobile stations

Manned or unmanned vehicles (UxV) for area decontamination.

Robotic arms

Manual and robotic arms for heavy equipment and complex shapes.



ENTIRE RISK SPECTRUM



BIOLOGICAL



CHEMICAL



RADIOLOGICAL

PLASMATIQ
PURE TECH. ZERO LIQUID DECON.

GET IN TOUCH

Worldwide distributed by **NIXUS**
info@nixus2protect.com
+421 918 516 922

PLASMATIQ
PURE TECH. ZERO LIQUID DECON.

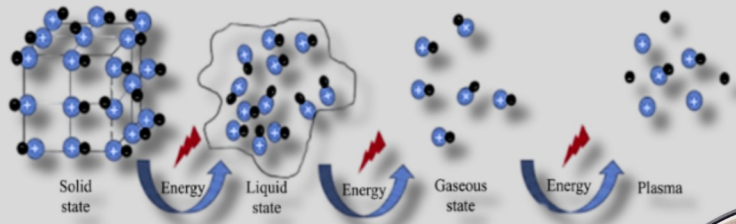


**REDEFINING THE
STANDARDS OF
CBRN PROTECTION**

www.plasmatiq.com

NEXT-GENERATION DECONTAMINATION

How Plasma is Generated in DCSBD



Partially ionized gas — energy carried mainly by free electrons.

Cold plasma is well-suited for CBRN decontamination. It can be excited at normal atmospheric pressure inside a reactor, allowing aerosol application of working substances.



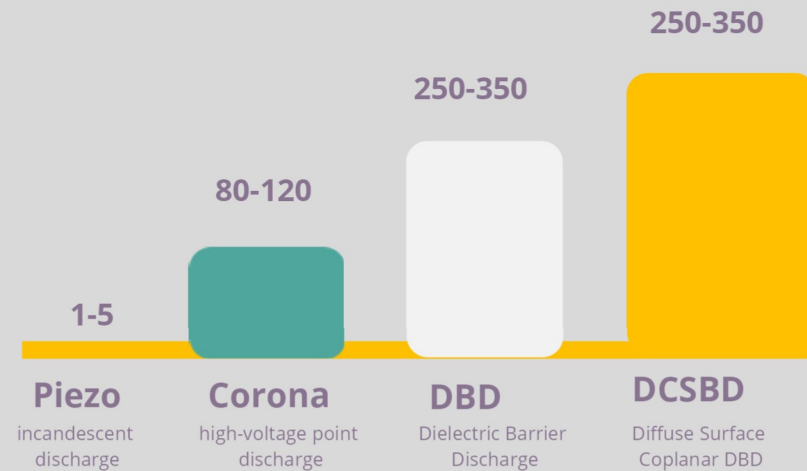
WHY DOES PLASMATIQ BEAT CONVENTIONAL METHODS?

Feature	New DCSBD Plasma	Conventional (Wet) Decontamination
Deployment Time	10 – 30 minutes	20 – 120 minutes
Reaction Time	1 – 2 minutes	10 - 30 minutes
Liquid Consumption	2 – 5 ml / m ²	260 – 330 ml / m ²
Toxic Waste	Zero	High amounts

EFFECT ON MATERIAL AT STANDARD EXPOSURE - EXAMPLES

	No change	Slight change	Heavy damage	Destruction	
Material	DCSBD-Fe	DCSBD-O3	PEROXO ACID	H ₂ O ₂ 10%	SPECIAL MICELAR SOLUTION
Painted sheet	Micro defects of the coating (nm).	No change.	Paint etching, corrosion	Slight oxidation	Paint damage
PE/PP	Surface oxidation	Surface oxidation (nm)	Deep destruction	Surface oxidation	Surface degradation
PVC	Surface dechlorination (nm)	Surface dechlorination (nm)	Deep destruction	Surface degradation (µm)	Surface dechlorination (µm)
PCB electronics	CuO/Cu ₂ O nano film, low short-circuit risk	No short-circuit risk	Destruction	Destruction	Destruction

DISCHARGE EFFICIENCY SCHEMA



(**Fictitious comparison — piezoelectric set to baseline 1–5.*)

DCSBD reach the highest efficiency — the difference is in reactor architecture. At atmospheric pressure the streamer mechanism produces rapidly expanding electron avalanches, which form a conduction channel via photo-ionization.

WHY DCSBD PLASMA DECONTAMINATION

VS. CONVENTIONAL (WET) DECONTAMINATION

- Compact & fast: Quick deployment regardless of location and terrain.
- Faster reaction: Significantly shorter reaction and total decontamination time.
- Less liquid: ≈ 5 ml / m² instead of 300 ml / m².
- Frost-ready: Deployable in frost.
- No need to heat water
- No rinse, no waste: Simple logistics.
- One device: One device and solution for the entire risk spectrum.
- No corrosion: Suitable for electronics and other sensitive surfaces.
- Reaches everywhere: Surfaces and volumes — including porous structure, gaps, and shadowed areas.

DCSBD plasma reactor combined with active working substances — a modern way to decontaminate personnel and equipment across the entire risk spectrum