

Cold Plasma for Food Research



Enhancedtech™-15I
Enhancedtech™-16I



Applications:

Research on different fields of cold plasma application including

- Food decontamination
- Degradation of pesticides on the surface
- Seed germination
- Plasma surface decontamination
- Plasma surface modification
- Increase of the surface wettability

Features:

- Efficient for cold plasma generation
- Working at atmospheric pressure in air
- Applicable for different research purposes
- Safe for electronics
- Easy operation
- Including two types of alternative power supplies
- Designed to operate by a 50 Hz high voltage with the adjustable amplitude
- Designed to operate by a DC pulsed high voltage with the adjustable amplitude and frequency
- With an embedded test chamber
- Designed to treat objects in periodic mode with the adjustable treatment time

● Technical Data for Cold Plasma for Food Research

Items	Specification		Remarks
Model	Enhancedtech™-15I	Enhancedtech™-16I	
Dimensions	60(W)*60(D)*95(H) cm	45(W)*70(D)*60(H) cm	
Weight	Approx. 50 kg	Approx. 50 kg	
Power Requirement	AC 220 V, 50 Hz, 1Phase	AC 220 V, 50 Hz, 1Phase	Grounding Line < 0.5Ω
Plasma Output Power	Variable Voltage 0-20 kV, 50 Hz Variable Voltage 0-10 kV, 6-20 kHz	Variable Voltage 0-20 kV, 50 Hz Variable Voltage 0-10 kV, 6-20 kHz	
Chamber Size	Diameter 22cm	Diameter 22cm	
Electrodes Distance in Chamber Size	2 cm	Adjustable 0.5-3 cm	
For Material	Non-Conductive	Non-Conductive	
Processing Gas	Air	Air	
Side Probe	-	Cold Plasma Jet - DBD	
Processing Time	Adjustable	Adjustable	Periodic and Non-Periodic Mode

● Side Probe Technical Data for Enhancedtech™-16I

Items	Specification		Remark
Probe Type	Cold Plasma Jet	Dielectric Barrier Discharge	
Dimensions	4(W)*12(H) cm	25(W)*12(H) cm	
Weight	Approx. 150 gr	Approx. 100 gr	
Power Requirement	AC 220 V, 50 Hz, 1Phase	AC 220 V, 50 Hz, 1Phase	Grounding Line < 0.5Ω
Plasma Output Power	Variable Voltage 0-10 kV, 6-20 KHz	Variable Voltage 0-10 kV, 6-20 KHz	
Processing Gas	Helium, Nitrojen, Argon	Air	
Dielectric Characteristics	Quartz, 1mm Thickness	Quartz, 1mm Thickness	