

# Pacem Plasma Source for experimental approaches

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# PACEM TECH PLASMA SOURCE



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**About Company**

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## **PACEM TECHNOLOGY**

*Pacem is a biotechnology company that designs and carries out applications of cold plasma technology in many fields of activity*

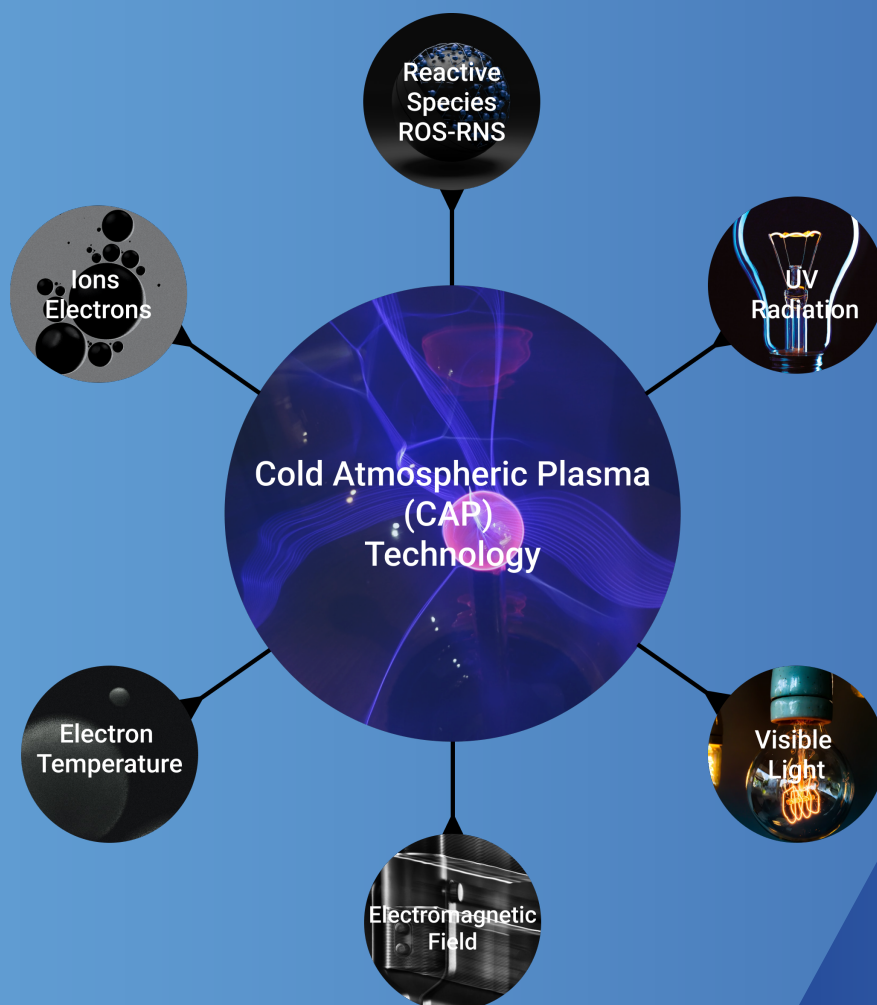
Being aware of the role that technology can play in improving human life, our company is also able to offer different services under a single roof for the realization of projects. Our company, which also provides R&D studies and consultancy services in the fields of health technology, electronics, embedded systems, software and engineering with innovative solutions, continues to provide services in a wide range of development and realization focus and domestic production..

What is

## COLD ATMOSPHERIC PLASMA

Cold plasma, the fourth state of the matter, is an ionised gas and can be generated at atmospheric pressure and low temperature below 40°C by supplying gas with electrical energy.

*Cold plasma consists of various components such as light, electromagnetic fields, ions, free radicals, reactive species (ROS-RNS), which are playing centre role in sterilization, surface modification, wound healing and antimicrobial efficiency.*



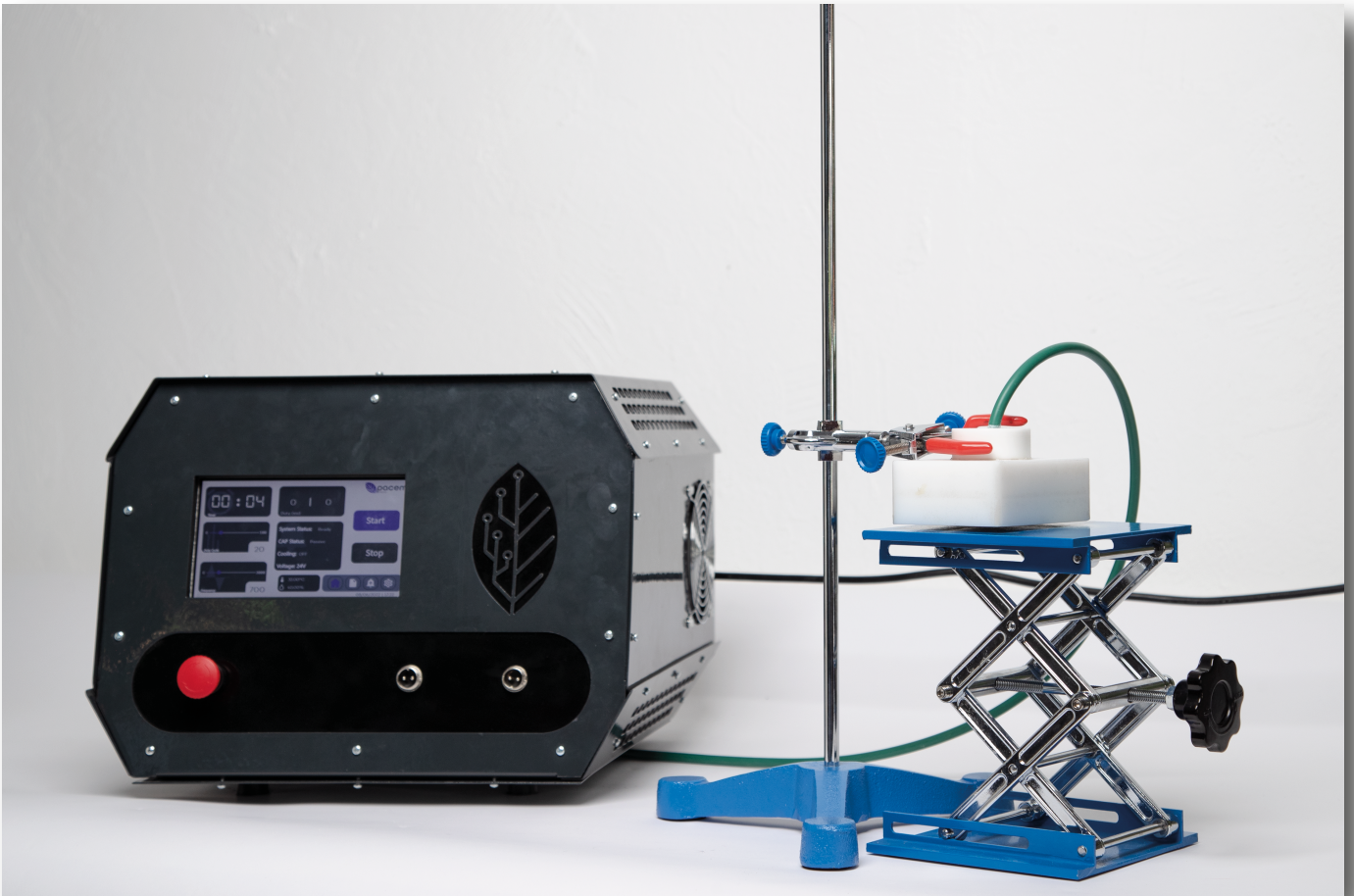
*Cold plasma: Reactive species, UV radiation, Light, Electromagnetic fields, electron temperature, Ions and electrons*



# WHAT IS OUR DEVICE

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Phaacse bme eCnA dPe Ssiogunrecde, as ap lsamsmarat dceovnitcreo lfloarb ules e iann dva vraioruiosu lsa baoprpalicoartieiosn s. tDhiesc Dhailerlgeec tarincd B jaertr ier tgeechhenroaltoeg cioesld a arec tuiivsee d to plasma at a temperature of less than 40°C.

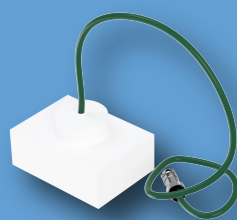


PACEM CAP SOURCE FOR BIOMEDICAL AND NATURAL  
SCIENCE EXPERIMENT.

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# FIELDS OF APPLICATION

- *Joining technology*
- *Development and optimization of production processes*
- *Research facilities and laboratories*
- *Microbiology, microfluidics and food technology*
- *Medical and dental technology*
- *Prototype and architectural model making*
- *Small-scale production*



Square DBD



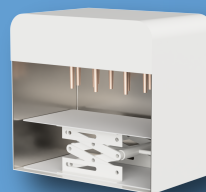
Dot DBD



Plasma Implant



Circular DBD



Surface DBD



Plasma Jet



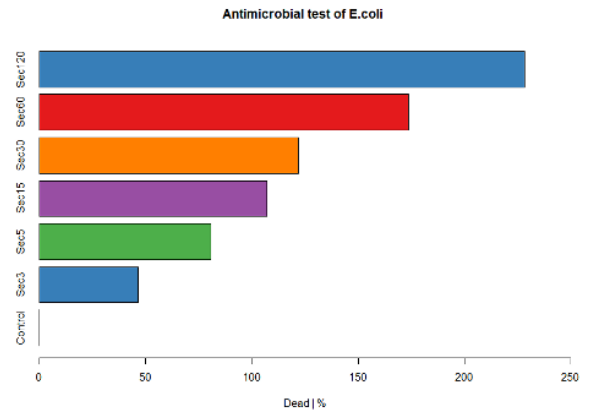
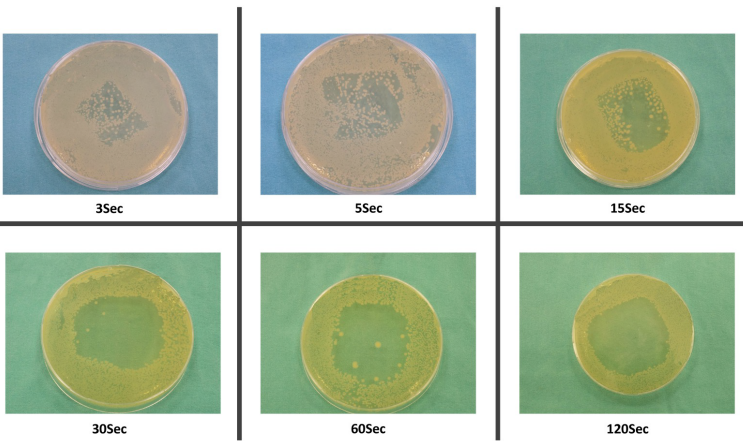


## TECHNICAL DATA |

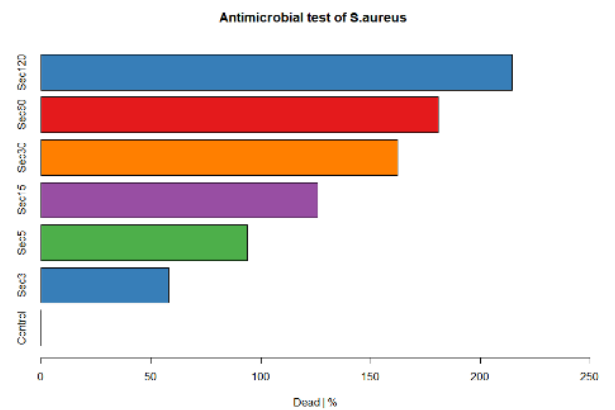
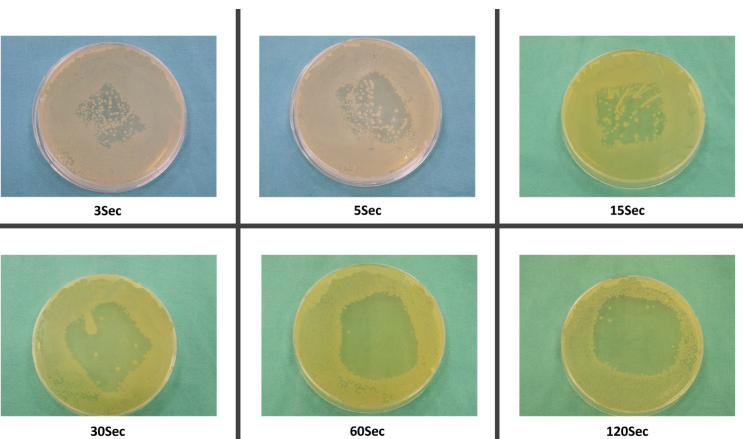
Model	PTP 22-01
Inner Dimension	280mm x 277mm x 395mm
Outer Dimension	384mm x 282mm x 400mm
Circuit Area	290 mm x 333 mm
Temperature	25 - 40 °C
Electrodes	DBD, Jet, sDBD
Operating Voltage	36V/24V/12V
Input Voltage and Frequency	220V/50-60Hz
Operating Frequency	1Hz -10kHz
Duty Cycle	%1 - %100
Modes	Continuous and Pulse
Duty Period	100 us -Continuous
High Voltage Scale (RMS)	0-50 kV
Power	360 Watt (24V )
Current	0-5 mA
Sensors	Temperature, Humidity and Pressure
Certification	CE
Control	Working Time with Screen, Frequency Duty Time, Mode Selection Air Flow
Touch Screen	7"
App	Desktop Application
Button	1 Control, 1 Emergency Shutdown
Outputs	2 High Voltage, 2 Earth
Database	Cloud Database and User Experience

# TEST RESULTS

## ESCHERICHIA COLI



## STAMPHYLOCOCCU AUREUS



# CERTIFICATE

CERTIFICADO • ZERTIFIKAT • CERTIFICATE • СЕРТИФИКАТ

**CERTIFICATE**

Bu Sertifika / This Certificate

**PACEM MEDİKAL TEKNOLOJİ SANAYİ VE TİCARET LİMİTED ŞİRKETİ**

Firmasının / Of the Company  
**Erzene Mah. Ankara Cad. No:172/14  
Bornova / İzmir / Türkiye**

QRS Belgelendirme tarafından denetlenmiş ve uygulamakta olduğu Medikal Cihaz Yönetim Sistemim  
*Is audited by QRS Certification and applied Medical Devices Management System meet the requirements of*

**ISO 13485:2016**

Şartlarının aşağıdaki kapsamda uygulanmakta olduğu gözlemlenmiştir.  
*It has been observed that the conditions are applied within the following scope:*

**Belgelendirme Kapsamı / Certification Scope**

MEDİKAL CİHAZ VE MALZEMELERİN, TASARIMI, İMALATI, SATIŞI, SERVİSİ, BİYOTEKNOLOJİK ARGE FAALİYETLERİ VE TIBBİ MÜHENDİSLİK, YAZILIM HİZMETLERİ

DESIGN, MANUFACTURE, SALE, SERVICE OF MEDICAL DEVICES AND MATERIALS, BIOTECHNOLOGICAL R & D ACTIVITIES AND MEDICAL ENGINEERING, SOFTWARE SERVICES

Sertifika Numarası : MDMS-22-0311-PAC  
Certificate Number  
Sertifika İlk Basım Tarihi : 03.11.2022  
Certificate Date of First Printing  
Sertifika Son Basım : 03.11.2022  
Certificate Last Edition  
Sertifika Geçerlilik Tarihi : 02.11.2023  
Certificate Validity Date  
Sertifika Revizyon No ve Tarihi : 00  
Certificate Revision Number and Date  
Sertifika Periyot Tarihi : 03.11.2022 / 02.11.2025  
Certificate Period Date

Onay / Approval

Kaya Patent Belgelendirme Hizmetleri Limited Şirketi  
İmbatlı Mah. 6091 Sk. No:1 K:8 D:38 Karşıyaka - İZMİR - Tel: 0232 364 49 03 - www.qrsquality.com - info@qrsquality.com  
Sertifika'nın geçerlilik bilgisi: www.qrsquality.com adresinden kontrol edebilirsiniz.

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Adreslerinde bulunan tesisleri QRS Belgelendirme tarafından denetlenmiş ve Kalite Yönetim Sistemimim  
*The facilities at the addresses have been audited by QRS and Quality Management System*

**ISO 9001:2015**

Şartlarının aşağıdaki kapsamda uygulanmakta olduğu gözlemlenmiştir.  
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*The facilities at the addresses have been audited by QRS and Environmental Management System*

**ISO 14001:2015**

Şartlarının aşağıdaki kapsamda uygulanmakta olduğu gözlemlenmiştir.  
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*Is audited by QRS Certification and applied Customer Satisfaction Management System meet the requirements of*

**ISO 10002:2018**

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