Edipla



Company brochure

Sterilize with plasma, not chemicals

Plasma reactive species break down into oxygen after sterilizing, leaving no chemical residue and fewer rinse steps.

What is plasma?

High-energy plasma produces reactive species such as ozone and radicals, which react with surfaces and control harmful microbes. Edipla triggers this reaction at low temperature and atmospheric pressure, so food is treated without heat or chemicals.

Kill rates confirmed by accredited tests

99.99%
E. coli and S. aureus reduction
KCL field test · Nov 2025

99.9%
Black mold reduction (30 min)
KCL · KRIBB Biological Resource Center

80%
Blue mold reduction (30 min)
KCL · KRIBB Biological Resource Center

99.8%
In-house kill-rate test
Edipla · Jul 2023

log 2 = 99%, log 3 = 99.9%, log 4 = 99.99% reduction. Egg sterilization tests showed log 2 or more (99% or more), and the 99.8% figure is Edipla's own in-house result, not an outside lab's.

From intake to frozen packing

Plasma sections

01	02	03	04	05	06	07
Intake weighing	AI sorting	1st sterilizing	1st washing	2nd sterilizing	3rd sterilizing + drying	Frozen packing

Plasma runs through four sections, from the first sterilizing pass to the third pass with drying. Intake weighing and AI sorting come first and pull out defective produce.

Certifications and IP

ISO 22000
Food safety management
ISO 22000:2018

ISO 9001
Quality management
ISO 9001:2015

ISO 14001
Environmental management
Environmental certification

KC
KC registration
Plasma generator EP.PS_TO01

Patents
3 registered · 3 pending
2 more filings planned in 2026 (diagnostics, freeze-drying)

Design · TM
2 designs · 2 trademarks
Including applications

Water
Water quality and purification tests
9 tests

Figures follow the website (Oct 2026) and the IR deck (Sep 2026).

Equipment we develop



Water treatment

Plasma bubble washer-sterilizer

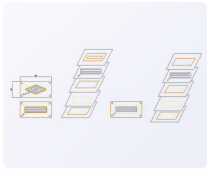
Air microbubbles and a plasma source unit wash and sterilize the produce.



AI image-sorting controller

E-CMS3000

Sorts produce by image learning and controls the line.



Core component

Plasma generator EP.PS_TO01

Two SiC ceramic electrodes produce a dielectric barrier discharge.



Control and log app (Android · beta)

Data interface app

Equipment status and treatment history on one screen.

In development

Air treatment	Storage	Signal control	Power module
Plasma air sterilizing dryer	**Plasma cold storage**	**E-CMS1000**	**Plasma frequency module**

Designed for five categories

01
Fruit and vegetables
Washing and sterilizing produce with soil and debris, such as sweet potatoes, apples, cabbage and radish.

02
Eggs
Reduces bacteria on the eggshell without heat.

03
Meat and seafood processing
Sterilizes raw material and work surfaces on the line.

04
HMR and meal kits
Hygiene and shelf life for meal-kit vegetables.

05
Smart farms and distribution
Keeps storage and logistics hygienic after harvest.

Compared with a chemical line

Item	Chemical process	Edipla
Throughput per hour	400 kg	**400 kg**
AI sorting	No	**Yes**
Sterilizing chemicals	Used	**None**
Sanitizer tank	Required	**Not needed**
Operators	6 per hour	**2 per hour (monitoring)**
Chemicals and consumables	≈ KRW 24M per year	**KRW 3–5M per year (source unit service)**
Total line cost	≈ KRW 130M	**≈ KRW 150M**

Estimates from the Edipla IR deck (Sep 2026). The line costs about KRW 20M more up front, while chemicals and consumables drop by about KRW 19–21M a year (simple calculation). Actual figures vary with site conditions. USD figures use about KRW 1,400 per dollar (Oct 2026).

Precision hygiene, visible trust.

Clean technology that resets the standard for food hygiene.

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