



industries

Solutions with Simplicity



CERAFUSION TECHNOLOGY



PASSION + INNOVATION + PRECISION

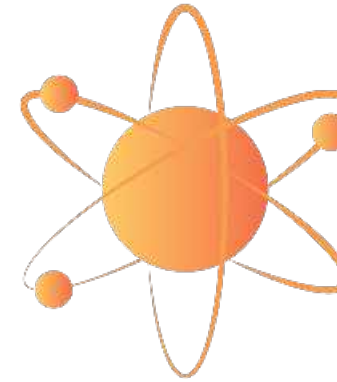
Safety and Hygiene through Technology.





Cerafusion Technology

Cerafusion Technology
Air Surface Steriliser
Using Active Oxygen
Just Like Nature



How does nature create
Active Oxygen?

Cosmic Ray



Photosynthesis



Waves



Waterfall





Cerafusion Technology

The **Cerafusion™ Technology**, a leading edge patented technology designed to produce :

Massive amounts of ions and controlled levels of ozone.

This is achieved when a **high voltage** is driven through the **Cerafusion™ Ion and Ozone module**.

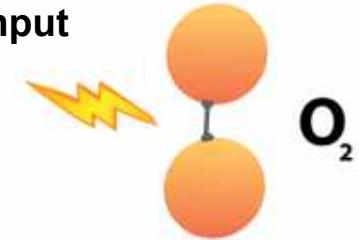




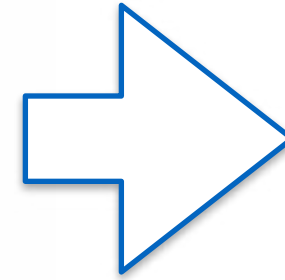
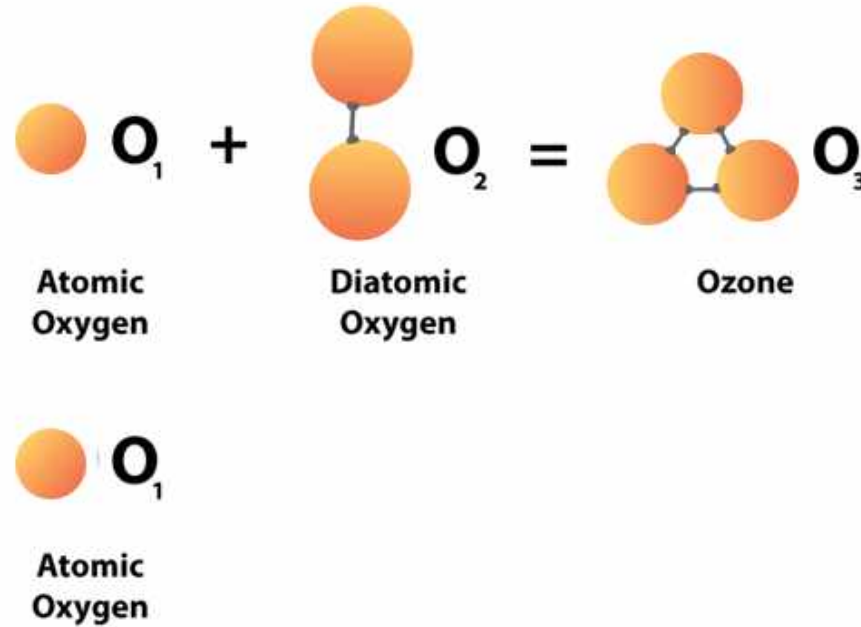
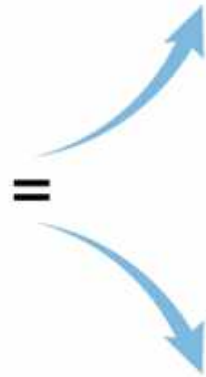
Cerafusion Technology



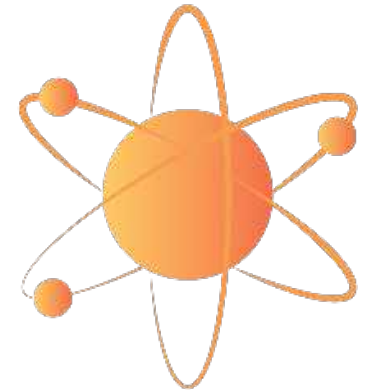
High Energy
Input



Atmospheric Air

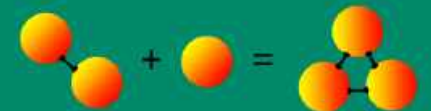


Active Oxygen



O_3

The O_3 molecule is made up of three oxygen atoms.



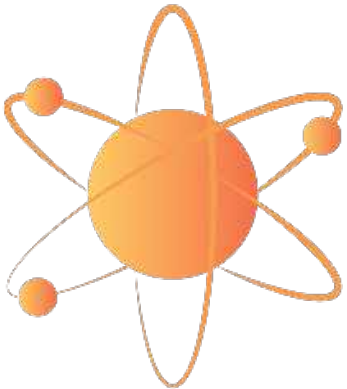


Cerafusion Technology

The current ways of sanitising and cleaning environments with heavy usage of chemicals are not sustainable and eco friendly.

Chemical Free Cleaning (CFC) is the way to go !

Active Oxygen



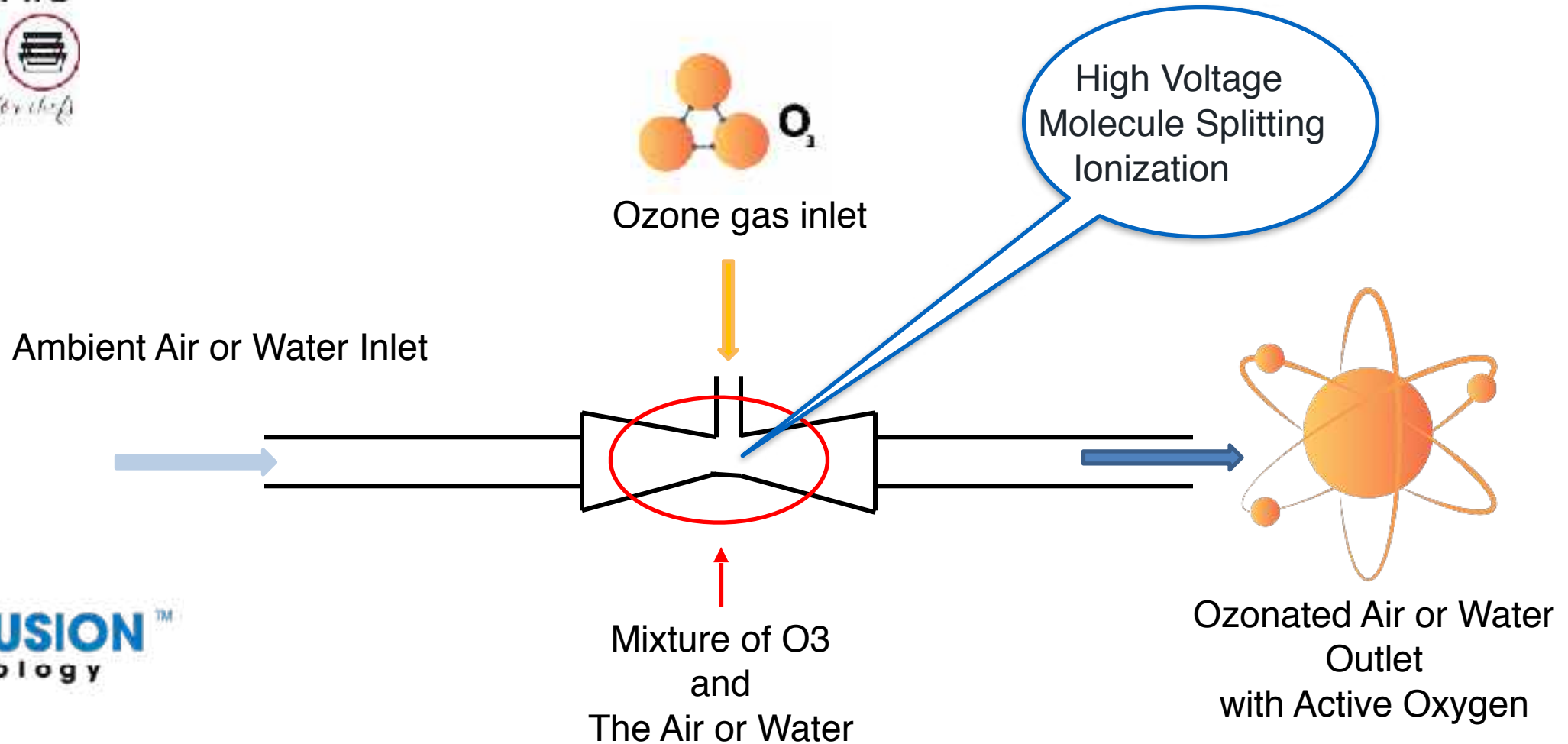
- Ozone is a **very strong disinfectant and oxidizer**. Any pathogen or contaminant that can be disinfected, altered or removed via an oxidation process will be affected by ozone.
- Compared to chlorine, the most common water disinfection chemical, **ozone is a more than 50% stronger oxidizer and acts over 3,000 times faster.**



Source: US Environmental Protection Agency, USA (EPA), 1999

Cerafusion Technology

How do we create OzoneAir and Water?





Solutions with Simplicity

O₃ attaches itself onto harmful pollutants and destroys them on a molecular level.



Bad smells



Cigarette smells



Musty smells



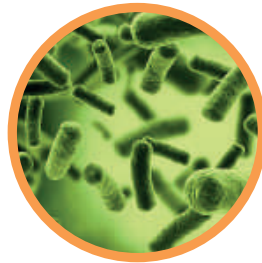
Remnant food smells



Volatile Organic Compounds (VOCs)



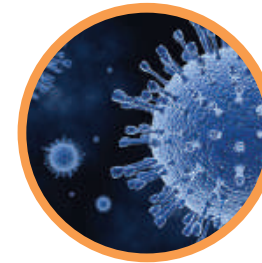
Moulds



Bacteria



Dust mite allergens



Viruses



Mould spores



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Comparison of disinfection Methods

	Cerafusion	Chemicals	Heat
Removal of biofilm	High	Varies	Low
Spore reduction	High	Varies	Low to Medium
Disinfection potential	High	Medium	High
Energy efficiency	High	Varies	Low
Water efficiency	High	Low	Medium
Chemicals costs	Low	High	Low
Energy requirement	Very low	Varies	High
Environmental impact	Low	High	Medium
Amount of harmful residues	Zero	Varies	Zero
Corrosion potential	Low	Varies	Low



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Comparison of Different Technologies

	Air Filter	UVC	Fumigation ¹	Coating Treatment ¹	Ionizer	Ozonizer	Cerafusion
Kills bacteria , mold, yeast or viruses	X	Y	Y	Y	X	Y	Y
Denature dust mite allergens	X	Y	X	X	Y	Y	Y
Removes surface-bound pollutants	X	Y	X	Y	X	Y	Y
Coverage area	X	X	X	X	Y	Y	Y
Removes offensive and unpleasant smells	X	X	X	X	X	Y	Y
Complies to international safety standard	Y	Y	Y	Y	Y	X	Y
Ability to control the level of output	Y	Y	X	NA	X	X	Y
Ease of maintenance and DIY	Y	X	X	X	X	X	Y

NOTE: 1 – Fumigation and coating only cover the surfaces sprayed but does not cover all surfaces e.g. tables, chairs. etc and does not provide continuous coverage which Medklinn solutions offer.



Solutions with Simplicity

Personal Solutions Air+Surface Sterilizers



Business Solutions Air+Surface Sterilizers Ozone Water Systems



“Study proves that Cerafusion Technology Air sterilisers show improvements and beneficial effects on individuals having symptoms associated with allergic Rhinitis and Sinusitis”



Solutions with Simplicity

Wall Mount



PRO AS1
300 sq ft



PRO AS2
450 sq ft

Wall/Ceiling Mount



PRO AS50G
1,000 sq ft

Portable



PRO AS20P
400 sq ft



PRO AS30P
600 sq ft



PRO AS40P
800 sq ft

Standalone



PRO AS180
1,000 sq ft

Distributed System



PRO AS300D
3,000 sq ft

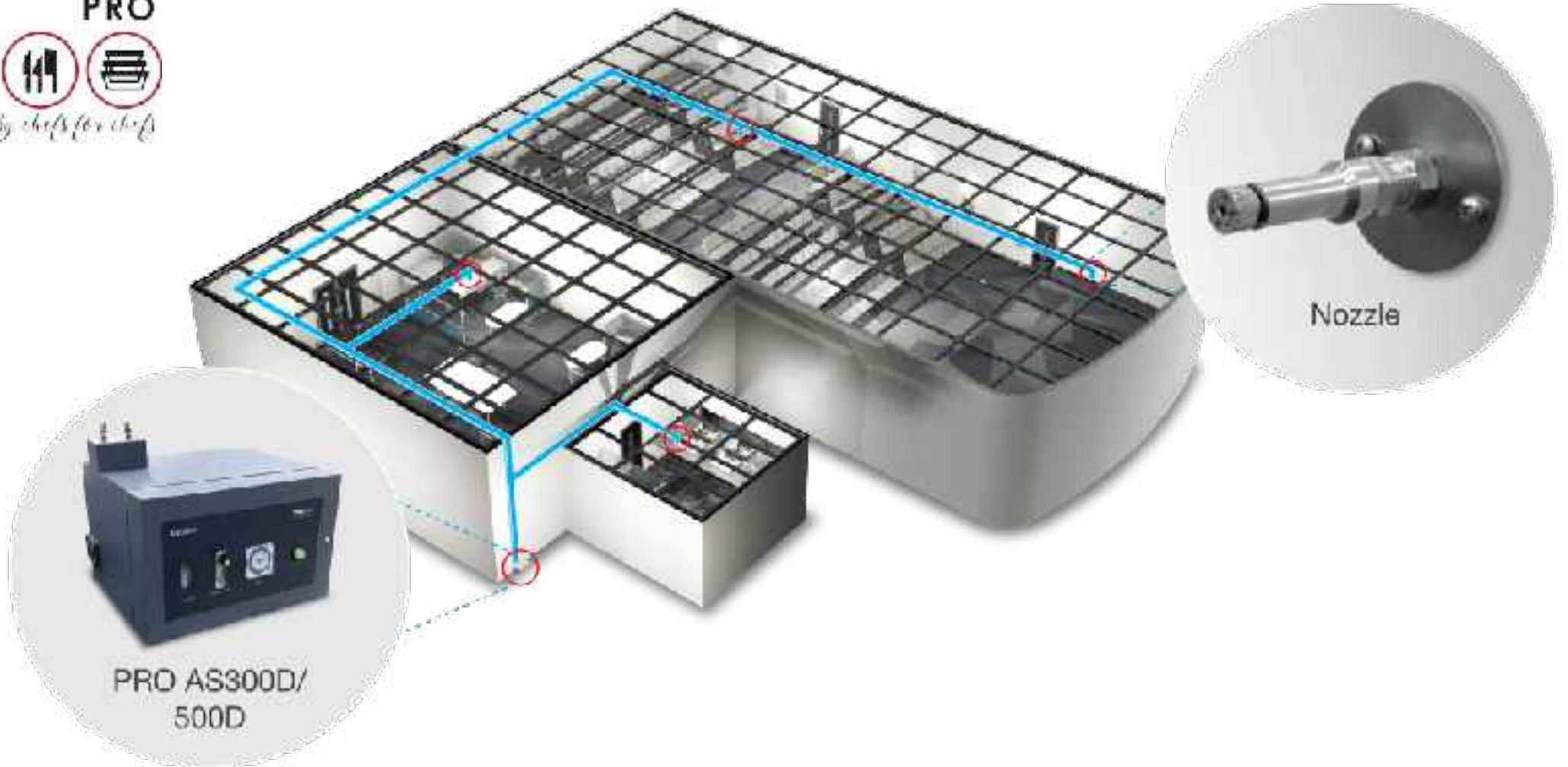


PRO AS500D
5,000 sq ft



Air Surface Steriliser Pipe In System

Air+Surface Sterilizers | Distributed System





Solutions with Simplicity

Food Courts



Offices



Hotels



Classrooms



Healthcare



Refuse Chamber



Smoking Area





OZONE Water Application

Business Solutions:

Ozone Water Systems

O3
Hydro 5



O3
Hydro 10



O3
Hydro 20



O3
Jetspray





OZONE Water Solution



Savings of
Water usage

10% - 20%



Saving of
Chemical Usage

25% - 60%



Manpower
Savings

10% - 20%



Return on
Investment (ROI)

6-24 months



Energy
Savings

85% - 90%



Eliminate the use
of hot water



OZONE Water Solution

O₃ Hydro
ozonewatersystem



OZONE Water Solution

- Use lesser Water.
- Use lesser Energy.
- Use lesser or no Chemicals.
- Minimise environmental Pollution.

#1

Has high
disinfectant
properties

#2

Effective
Deodorizer

#3

Leaves no residuals
or harmful
by-products

#4

FDA & USDA
approved

#5

Environmentally
friendly

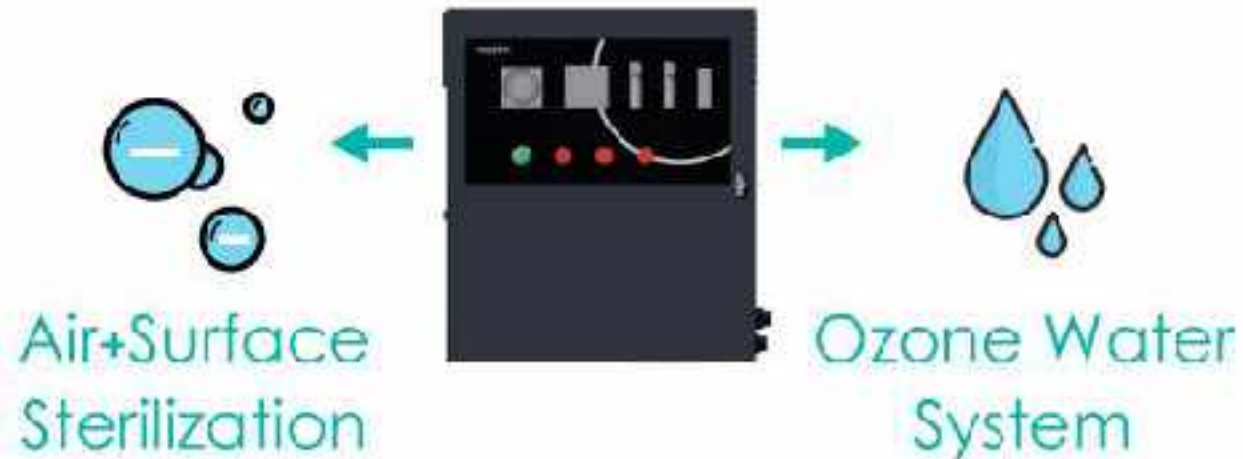




Solutions with Simplicity

INTEGRATED STERILIZATION SYSTEM

A combined solution for
Air+Surface and water sterilization

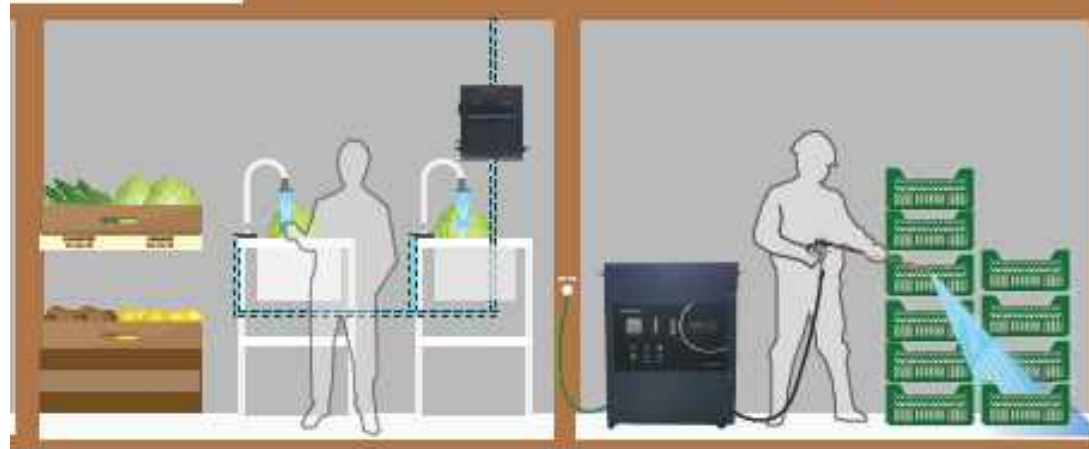




Loading Bay /
Refuse Chamber

OZONE Water Application

Chiller Room



Fresh Processing Room

Washing Area



OZONE Water Application

#2: Air+Surface Sterilizer, Medklinn RPO AS300D
used in Chiller





OZONE Water Application

Ozone Water Jet Spray
For Refuse Chambers

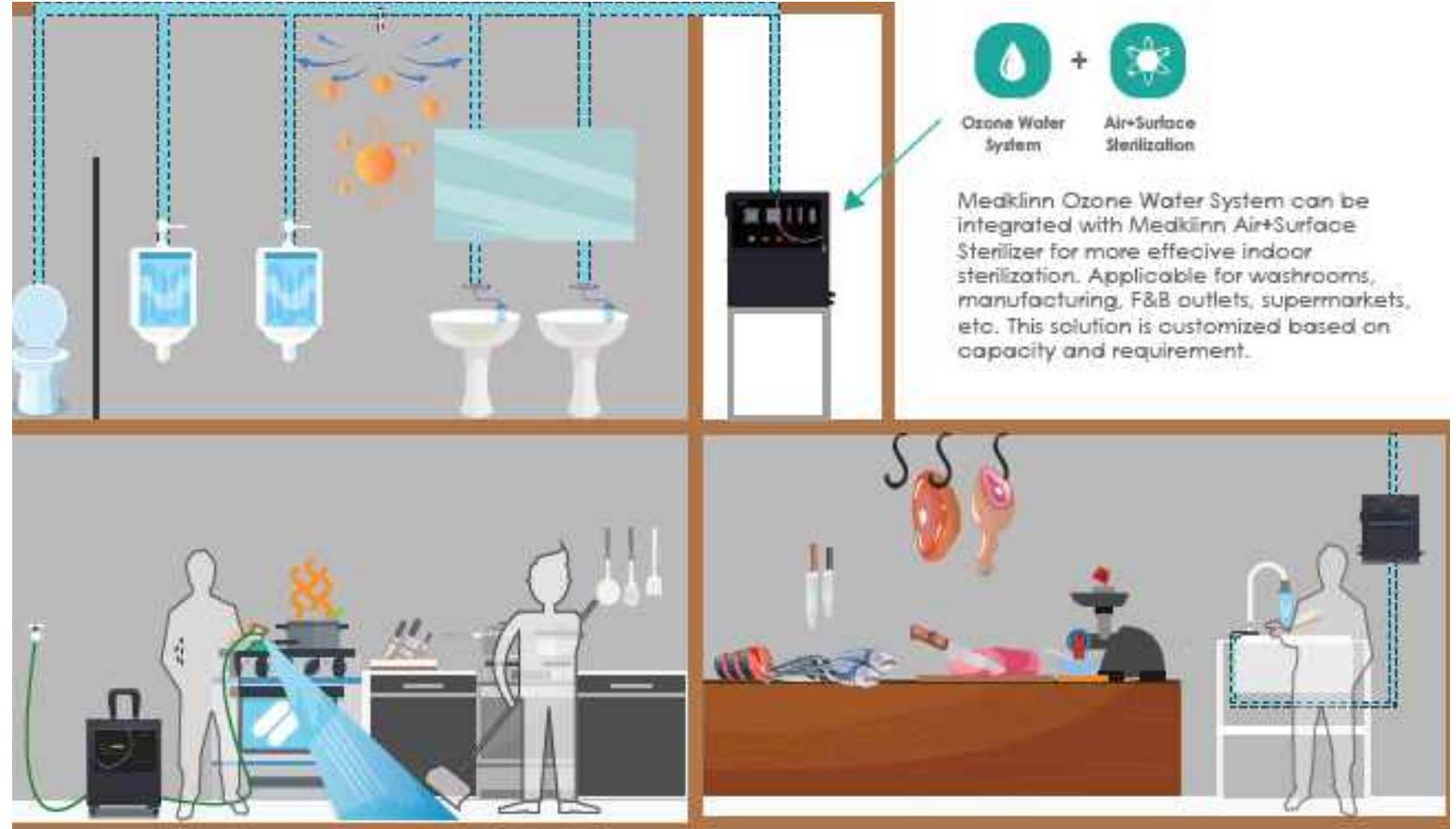




OZONE Water Application

Washroom

Integrated Sterilization System



Hot Kitchen

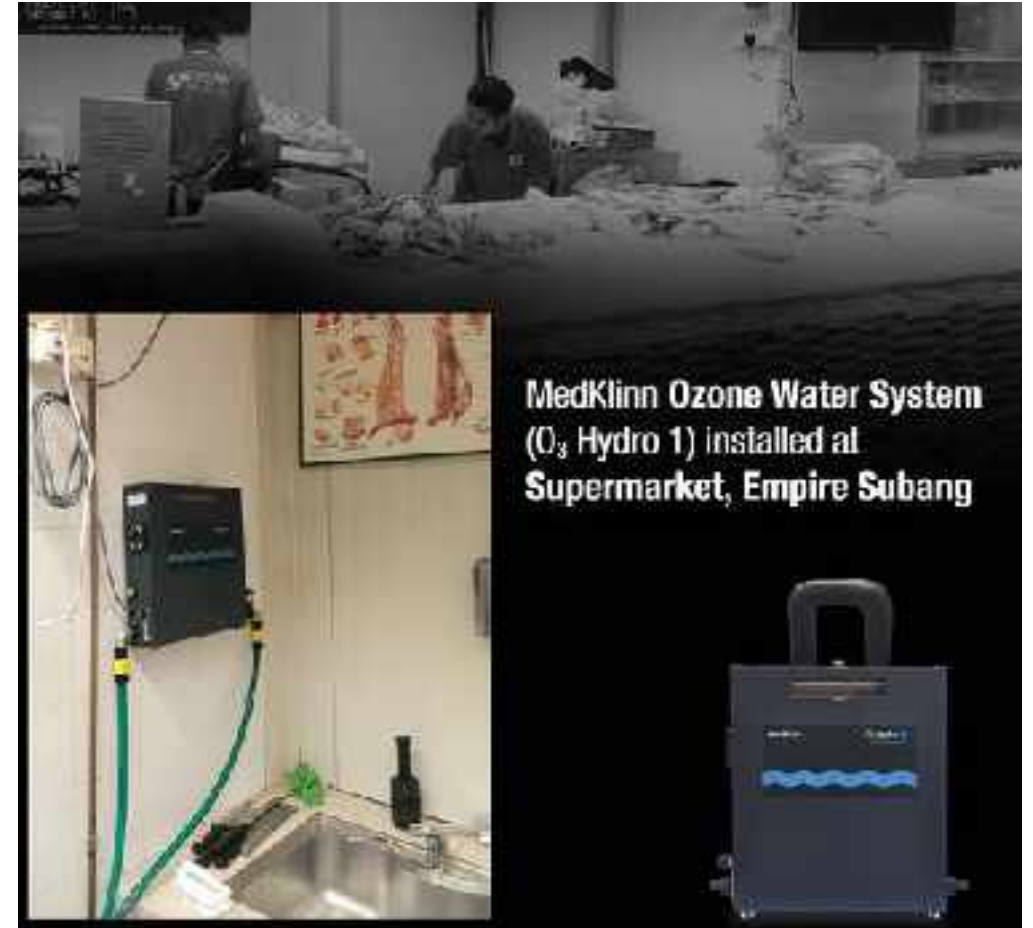
Seafood and Meat Processing Room



OZONE Water Application



Installed MedKlinn O3 Hydro 10 in the production area.



MedKlinn Ozone Water System (O₃ Hydro 1) installed at Supermarket, Empire Subang



R: Rectified

L: Linear

U: Unit

3M Clean -Trace
ATP test <500 RLU
Food safe

Test Results Proven Results

Results of Traditional Method Vs Ozone Water Process

Swab Location(s)	Band Saw Machine 1 Thorough Cleaning with hot water & detergent (Cleanliness index unit = RLU)			Band Saw Machine 2 Thorough Cleaning with ozone water (room temperature) & no detergent (Cleanliness index unit = RLU)		
	Before	After	Difference	Before	After	Difference
Surface	515	16	-499	1,044	13	-1,031
Wheel Compartment	705	40	-665	978	29	-949

Bacillus species
Causes anthrax, food poisoning



Bacteria 100% killed

Our happy Customers





Solutions with Simplicity

Entreprise Singapore Pre Approved Grant More models available.

You have a company grant cap of \$30,000 from 1st April 2019 to 31st March 2020 (this financial year). For your PSG applications to be qualified under this financial year, please kindly submit your application by 15th February 2021.

How to apply:

Applicants must meet the following eligibility criteria at the point of application:

a) must be a SME				
b) must be registered in Singapore				
c) must have 30% local shareholding ownership criteria				
d) purchase/lease of the equipment must be used in Singapore				
e) must not have:				
made any payment to a supplier, vendor or third party in relation to the purchase/lease of the equipment.				
signed any contract with a supplier, vendor or third party in relation to the purchase/lease of the equipment				

Now, you may submit the application on Business Grant portals after getting a quote from Q Industries via the link below.

<https://www.smeportal.sg/content/tech-depot/en/psg/specific-equipment/ozonised-air-plus-surface-sterilisation-system.html>

Equipment must meet the following:

- Generate active oxygen at an output between 20mg – 130mg/hr
- Emit negative ion at more than 2 million/cubic centimetres and coverage area of at least 48 m²
- Demonstrate the effectiveness of sterilisation and reduce bacteria count by 90%
- Installation and maintenance costs are not supported

Solutions	PRO AS2	AS20P	AS30P	AS40P
Unit Cost	\$ 700.00	\$ 798.00	\$ 838.00	\$ 1,028.00
Unit cost for SMEs after 70% Productivity Solutions Grant (PSG)	\$ 210.00	\$ 239.40	\$ 251.40	\$ 308.40
(All costs quoted are exclusive of GST.)				
For SMEs: 70% of cost of equipment, up to \$30,000 grant				



Your innovative hospitality
solutions integrator

