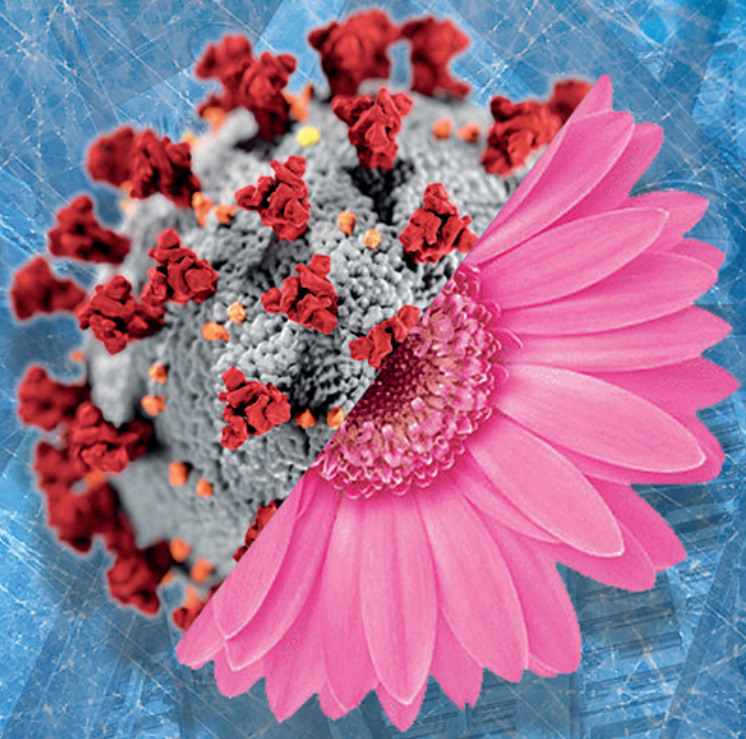
TTC

DISINFECTION



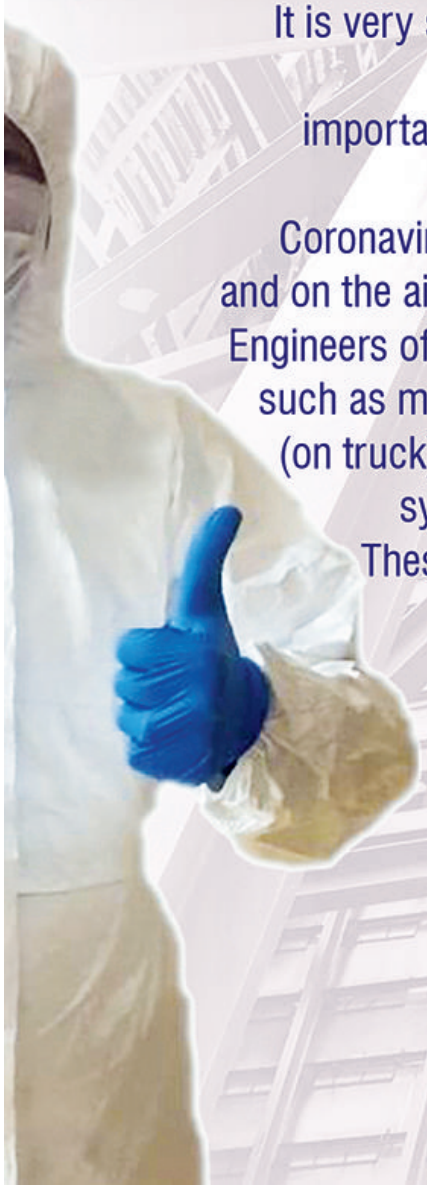
DISINFECTION SYSTEMS

DISINFECTION

ABOUT US

Since 2003 TTC Engineering plays an active role
in the manufacturing industry.
The company continues production with100 staff in a total factory
area of 10,000 m2. TTC continues to grow rapidly and
at work attaches
importance to quality. Combining industry experience, quality and
technology, TTC is working for the satisfaction of its customers.

Since the first day of coronavirus, TTC Engineering has closely
followed this situation and mobilized to develop solutions.
It is very sad for us to hear new cases and deaths every day.
That's why it is
important for us to come up with solutions to protect you
and your loved ones from the virus.
Coronavirus spreads very quickly and holds on the surfaces
and on the air. We produce disinfection tools to prevent this spread.
Engineers of TTC have developed various products for disinfection
such as mobile disinfection chamber, fixed disinfection system
(on truck), disinfection jet spray system, vehicle disinfection
system and semi-mobile disinfection system.
These systems help eliminate viruses from the air,
people's clothes and skin.
These systems are of great importance
to protect your health today.





DISINFECTION SYSTEMS

DISINFECTION

DISINFECTION CHAMBER





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DISINFECTION CHAMBER

The deadly coronavirus, which is affecting the whole world and our country and is spreading rapidly, causes many people to die. As in the past, TTC engineering carries out many researches in this field by conducting R&D studies today and acting with the awareness of social responsibility especially during these difficult times.

As a result of this research and development, our company designed mobile disinfection chambers and presents for human use for the purpose of preventing and taking precautions against the coronavirus. The disinfected cabinets, that we have produced with our expert team in our factory in Ankara, are in the stock, in order to meet the demands and be prepared for any extraordinary situation. This product is used especially in construction sites, factories, markets, airports, bus terminals and bus stops, shopping malls, district governorships, governorships, municipalities, schools, in the security points of public and private institutions, and usable in open and close areas.

The coronavirus can be transmitted by contact, as well as by coughing and sneezing, or by touching the infected areas. Therefore, it is absolutely necessary to disinfect constantly.

Coronavirus can live 3 hours in the air, 12 hours on the ground, 6 hours in clothes on the fabric.
Disinfectant Cabinets are ***portable and modular*** at any time.

The disinfectant cabin is working with the fogging method. It detects the person entering the cabin by means of motion sensors on it and performs disinfection by spraying approximately 200 g solution in 5 seconds.

TECHNICAL DETAILS

Type	Automatic
Required Voltage	220V
Pump	0,2kW – 80 bar
Solution + Water Tank	100 lt
Sensor for automatic work	Available
Lightning	Available
Entry+Exit Warning	Available
Hygienic Doormat	Available
Automation	Available
Dimentions (W*L*H)	1200*1100*2300 mm
Weight	180 kg
Liquid Consumption	0.061/person
Working Time	5 s/person
Solution to be used	Hypochlorous Acid



TTC DISINFECTION

QUALITY CERTIFICATE

BENART

BENART Uluslararası Teknik Kontrol ve Belgelendirme Ltd. Şti.
Alınteri Bulvarı Gül 86 Koop. 1151. Sok. No:1/66 Ostim Yenimahalle/ANKARA/TÜRKİYE
Tel : +90 312 442 40 35 Fax : +90 312 442 40 32
www.benart.com.tr - info@benart.com.tr

UYGUNLUK SERTİFİKASI
CERTIFICATE OF CONFORMITY

Firma Adı *Company Name*	:	TTC MAKİNA MÜHENDİSLİK SANAYİ VE TİCARET LİMİTED ŞİRKETİ
Adres *Address*	:	SARAY MAHALLESİ 1074. SOKAK NO:1 K/_ KAHRAMANKAZAN ANKARA/TÜRKİYE
Ürün Tanımı *Product Description*	:	DEZENFEKSİYON KABİNİ *DISINFECTION CABIN*
Ürün Markası/Modeli/Tipi *Product Brand/Model/Type*	:	TTC MÜHENDİSLİK/TTC-2020
Referans Yönetmelik(ler) *Reference Directive(s)*	:	2006/42/AT Makine Emniyet Yönetmeliği Ek-1 *2006/42/EC Machinery Safety Directive Annex-1*
Referans Standart(lar) *Reference Standard(s)*	:	EN ISO 12100:2010, EN 60204-1:2018, EN ISO 13850:2015, EN 14120:2015
Test Raporu *Test Report*	:	Benart Uluslar arası Teknik Kontrol Ve Belgelendirme Ltd.Şti. : LVD-3574, ME.MR-601
Sertifika No *Certificate No*	:	3813
Yayın Tarihi *Issue Date*	:	14.04.2020 **Geçerlilik Tarihi** *Expiry Date* : 13.04.2021

BENART Uluslararası Teknik Kontrol ve Belgelendirme Ltd. Şti., yukarıda adı ve adresi belirtilen firmanın, ürüne ilişkin sunduğu dokümantasyonu yukarıda belirtilen referans yönetmelik ve / veya referans standartlara göre incelemiştir. Yönetmeliğe ve standartlara göre ürünün ve dokümantasyonun uygunluğu firma sorumluluğundadır. Ancak yukarıda belirtilen yönetmelik ve / veya referans standartlara, ürünün birden fazla yönetmeliğe ve standarda tabi olması durumunda diğer yönetmeliklerin ve standartların şartlarını da firma yerine getirdiğinde aşağıdaki CE uygunluk işaretini ürün üzerine iliştirebilir ve uygunluk beyanı düzenleyebilir.Bu sertifika firma isteği üzerine düzenlenmiştir.

BENART International Technical Control and Valuation Inc. has inspected the documentation presented concerning the product of the company whose name and address mentioned above according to the reference directive and/or reference standards. Suitability of product and documentation to the directive and standards are under the responsibility of the company. However, in case the product is subject to more than one of the directives and standards which are mentioned above, when the company fulfils conditions of other directives and standards, then it can attach CE conformity marking and arrange conformity declaration.This certificate has been issued as per company request.

Genel Müdür/General Manager

BENART INTERNATIONAL TECHNICAL INSPECTION AND CERTIFICATION LTD. BENART

CE

Bu belgenin mülkiyet hakkı BENART Uluslararası Teknik Kontrol ve Belgelendirme Ltd. Şti. ' ne aittir ve istendiğinde iade edilmelidir. BENART bir sonraki kontrol tarihi için belge basım tarihinden 1 yıl sonrasını tavsiye eder. Bu belgenin geçerliliği BENART ile iletişime geçilerek sorgulanabilir.
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TTC
DISINFECTION

DISINFECTION JET



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TTC DISINFECTION

DISINFECTION JET

Thanks to its special design, the TTC disinfected jet can be used for coronavirus disinfection in large areas. With its maneuverability both vertically and horizontally, you can spray the disinfection solution homogeneously in all areas. Disinfection fan (also known as coronavirus fighter, solution sprayer, etc.) is designed for effective coronavirus control. Virus control is achieved in maximum area by spraying the sterilization fluid. It ensures minimum solution consumption and maximum disinfection efficiency.

STANDARD DESIGN

- Nozzle ring
- Automatic or manual, vertical and horizontal oscillation
- Booster pump to control
- Water filter
- Electric control panel
- Protection against dry-run
- Remote control (wireless, min. range 100 m)
- Trailer with the genset and water tank (optional)

GENERAL SPECIFICATION

Throw (windless conditions)	60 m
Droplet size	50-150 microns
Fan	11,0 kW
Booster pump	5,5 kW
Power Supply	3 Phase, 400 V AC, 50 Hz
Water consumption	4000-6000 l/h



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DISINFECTION

DISINFECTION JET SYSTEM



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DISINFECTION JET SYSTEM

Disinfection jet system designed used for disinfection in large areas. There are solution tank, generator and jet fan in the system. The system is mounted on a single chassis and disinfection can be performed easily by activating on the vehicle.

GENERAL SPECIFICATION

1) TURBO DISINFECTION FAN

Throw /windless conditions)	60 m
Droplet size	50-150 microns
Fan	11,0 kW
Power supply	3 Faz, 400 V AC, 50 Hz
Water consumption	4000-6000 l/h
Dimensions (W*L*H)	2000*1600*1300 mm
Control	Remote Control

2) WATER TANK

Capacity	5.300 lt
Material	4 mm ST37
Inner insulation	Anticorrosion special insulation
Pump	5,5 kW Stainless Steel
Filter	

3) GENSET

Brand	AKSA
Model	APD 90A
Prime Power	64 kW / 87 HP
Motor	DOOSAN

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DISINFECTION

SEMI-MOBILE DISINFECTION SYSTEM



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SEMI-MOBILE DISINFECTION SYSTEM

The Semi-Mobile Disinfection System is fully self-contained disinfection solution. There is a generator set, solution tank and jet fan system on the trailer. Trailer is designed in accordance with highway conditions.

STANDARD DESIGN

- Nozzle ring
- Automatic or manual, vertical and horizontal oscillation
- Booster pump to control
- Water filter
- Electric control panel
- Protection against dry-run
- Remote control (wireless, min. range 100 m)
- Diesel Genset
- Water Tank
- Chassis



GENERAL SPECIFICATION

1) TURBO DISINFECTION FAN

Throw /windless conditions)	60 m
Droplet size	50-150 microns
Fan	11,0 kW
Power supply	3 Faz, 400 V AC, 50 Hz
Water consumption	4000-6000 l/h
Dimensions (W*L*H)	2000*1600*1300 mm
Control	

2) WATER TANK

Capacity	5.300 lt
Material	4 mm ST37
Inner insulation	Anticorrosion special insulation
Pump	5,5 kW Stainless Steel
Filter	Steel

3) GENSET

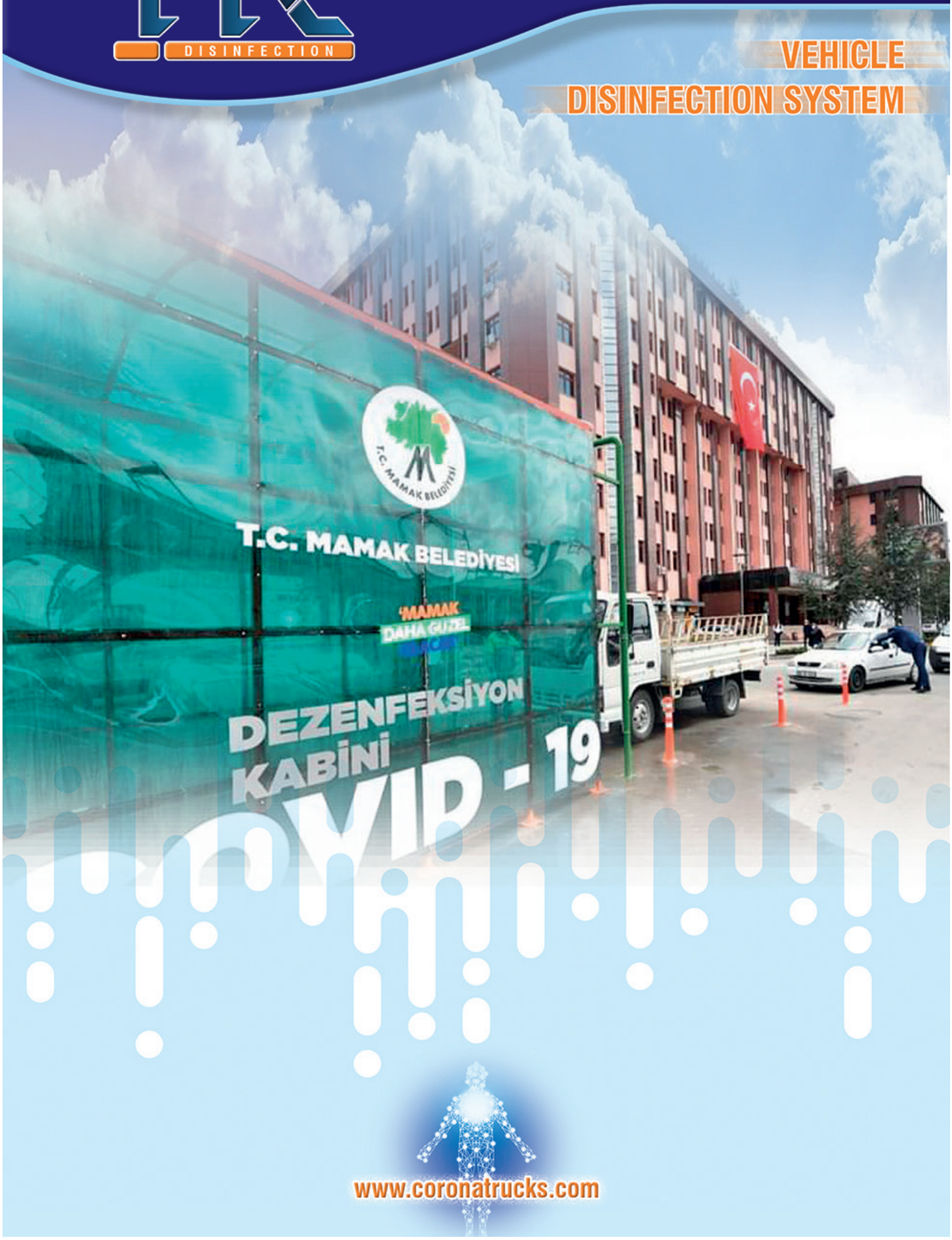
Brand	AKSA
Model	APD 90A
Prime Power	64 kW / 87 HP
Motor	DOOSAN

4) SEMI-TRAILER

Axes
Wheels
Chassis
Lighting in accordance with traffic rules

TTC
DISINFECTION

VEHICLE DISINFECTION SYSTEM



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VEHICLE DISINFECTION SYSTEM

Transportation plays a very active role in pandemic times and is one of the issues to be considered in terms of spread. Your vehicles can become infected during product transportation. For this reason, TTC engineering manufactures vehicle disinfection cabins, so that you can disinfect your vehicles effectively. Working like car wash systems, it cleans your vehicles from viruses and bacteria in 45 seconds.

TECHNICAL DETAILS

Vehicle entry sensor	Available
Flow	2 m^3/h - 4 m^3/h
Automation	Available
Cover	Available



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DISINFECTION



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DISINFECTION

WHAT IS COVID-19 OR CORONAVIRUS

Coronaviruses (lat. Coronaviridae) is a family of viruses. There are 40 types of RNA-containing viruses, combined into two subfamilies, which affect humans and animals. Below you can see types that affect people:

- HCoV-229E,
- HCoV-NL63,
- HCoV-OC43,
- HCoV-HKU1,
- SARS-CoV,
- MERS-CoV,
- SARS-CoV-2 or COVID-19.

Coronaviruses themselves are not the only reason of deaths; however, they provoke the occurrence of pneumonia. After weakening immunity by coronavirus, bacteria and fungi kill a person. COVID-19 appeared in December, 2019 in Wuhan, China. COVID-19 firstly affected China leading to the death of 4512 people and 83756 cases of disease. After China, coronavirus spread to the rest of the World. In a several months, the number of cases exceeded 2 million and the total loss exceeds 145 thousands of people. Therefore, we can conclude that virus is spreading very fast. That has led some countries to quarantine.
The reason why new coronavirus spreads very fast is the way of being infected. Possible transmission mechanisms are airborne droplets and dust, fecal-oral and a contact with infected person. Virus generally propagates by droplets when person carried it coughs or sneezes. However, a person can get the coronavirus if they touch a surface or object that and touch their mouth, nose, or eyes after. The coronavirus has a lifespan enough to infect lots of people. According to researches, the virus lives on the paper for 3 hours, 2 days on woods and clothes fabric. It takes 4 days to disappear from glass and paper money and about 7 days for stainless steel and plastic.

There are several rules important to protect yourself and your family.

1. Wash your hands for 20 seconds with soap frequently.
2. Stand 3-4 steps away from one with cold symptoms.
3. Air your environment out frequently.
4. Wash your clothes at 60-90 ⍰.
5. Cover the mouth and nose with disposable wipes when coughing or sneezing, use the inside of the elbow if there is no wipe.
6. Clean the surfaces such as door handles, fixtures, sinks with water and detergent every day.
7. Avoid close contact, such as handshaking, hugging.
8. If you have cold symptoms, do not contact the elderly and chronic patients, do not go out without wearing a mask.
9. Do not touch your eyes, mouth and nose.
10. Do not share any personal belongings (daily items such as towels).
11. Drink plenty of fluids, eat a balanced diet, pay attention to your sleep patterns.



TTC DISINFECTION

HYPOCHLOROUS ACID AS A LIFE SAVER!

There are lots of products around us which can be used for disinfection. Most common are vinegar, alcohol and products contain alcohol etc. However, today we want to present you one that you probably did not hear before. It is a hypochlorous acid. Firstly, let us explain what is hypochlorous acid and whether it hazardous or not. Hypochlorous acid or HOCl is a very weak acid known only in aqueous solution, formed by dissolving of chlorine in water. Hypochlorous acid is naturally used by white blood cells of all mammals to kill microbial pathogens. Therefore, you can see that it is an absolutely natural physiological molecular. Because of that it is completely safe for new-born babies and old people. HOCl do not cause irritation or allergy. Hypochlorous acid completely safe for human use, chemical free, non-toxic and natural. It is FDA approved for use in wound healing, wound care and eye care products and is also common in veterinary care products.

Now let's see where HOCl is already applicable. Fistly hypochlorous acid was discovered by Sir Davy in 1823 and was used in the treatment of open wounds during the First World War. Hypochlorous acid destroys viruses, bacteria and fungi in seconds. It is applicable to hands, face, eyes, mouth, surfaces. For example:

- for wound care and treatment
- in eye surgery
- for treatment of infection
- in allergic diseases
- diabetic foot ulcer
- for sinusitis treatment
- for treatment of pneumonia in animals



Moreover it is also suitable for disinfections of fruits and vegetables.

Hypochlorous Acid approved by United States Environmental Protection Agency (EPA) as an antiseptic and suitable for use against human coronaviruses.

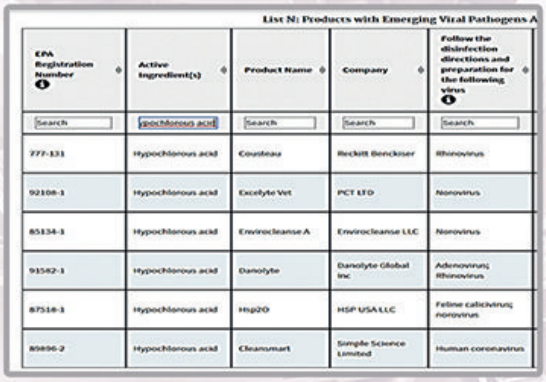
To sum up, hypochlorous acid may be our life saver in the current circumstances. We, TTC, are using this acid in our Mobile Desinfection Chambers to protect you agains viruses, especially coronavirus.



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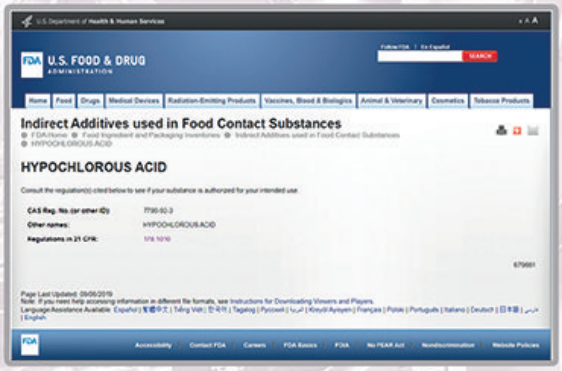
QUALITY CERTIFICATES

According to the EPA - US Environmental Protection Agency; Hypochlorous Acid can be used for disinfection against coronavirus.



List N: Products with Emerging Viral Pathogens A

EPA Registration Number	Active Ingredient(s)	Product Name	Company	Follow the disinfection directions and preparation for the following virus
Search	Hypochlorous acid	Search	Search	Search
777-131	Hypochlorous acid	Cousteau	Reckitt Benckiser	Rhinovirus
92108-1	Hypochlorous acid	Excelyte Vet	PCT LTD	Norovirus
85134-1	Hypochlorous acid	Envirocleanse A	Envirocleanse LLC	Norovirus
91582-1	Hypochlorous acid	Danolyte	Danolyte Global Inc	Adenovirus; Rhinovirus
87518-1	Hypochlorous acid	Hsp2O	HSP USA LLC	Feline calicivirus; norovirus
89896-2	Hypochlorous acid	Cleanomart	Simple Science Limited	Human coronavirus



U.S. FOOD & DRUG ADMINISTRATION

Indirect Additives used in Food Contact Substances

HYPOCHLOROUS ACID

Consult the regulation(s) cited below to see if your substance is authorized for your intended use.

CAS Reg. No. (or other ID): 7790-92-3

Other names: HYPOCHLOROUS ACID

Regulations in 21 CFR: 178.1010



envirolyte®

EC Certificate of Origin

Manufacturer: Envirolyte Industries International Ltd
Address: Narva str.I-330
10111 Tallinn
Estonia
Phone: +372 6626630
Fax: +372 6626631
E-mail: envirolyte@envirolyte.com

Confidentiality of chemical names
In accordance with Annex I of Directive 67/548/EEC or provisional classification

This certificate of origin is your assurance that Envirolyte units you have purchased are legally licensed from Envirolyte Industries International Ltd. >70% of the components used in the units are produced and purchased within the European Union and >20% within Estonia.

We declare that the biocide liquid [ANK-Anolyte] generated by Envirolyte diaphragmic cell consists solely of the following raw materials:

- Drinking water within the demands of Directive 98/83/EC concerning the quality of water used for human consumption.
- Table Salt [NaCL] in accordance with EN973:2002

The biocide liquid ANK-Anolyte with:

- pH 7.5 ± 1.5
- ORP 780 ± 100mV
- C. active 500mg/l±50

consists of the following active substances, which are all listed in the European EINECS inventory, as well identified and listed by the European Chemical Bureau [ECB] and published in the Journal of the European Communities, October 2003.

Ingredient	CAS-Nr.	EINECS-Nr.	Volume %	Symbols
Sodium chloride	7647-14-5	231-598-3	0.2%	NaCl
Hypochlorous acid as active ingredient	7790-92-3	232-232-5	0.05%	HOCl
Hypochlorite ion (sodium hypochlorite)	7681-52-9	231-668-3	0.05% (HOCl+OCl-)	OCl-
Water	7732-18-5	231-791-2	99.69%	H2O

Technical documentation and Material Safety Data Sheet are available upon request and our research proves that the above mentioned declaration of the chemical compounds of ANK-Anolyte is correct.

BUREAU VERITAS Certification

envirolyte®

EC Letter of Confirmation

Manufacturer: Envirolyte Industries International Ltd
Address: Narva str.I-330
10111 Tallinn
Estonia
Phone: +372 6626630
Fax: +372 6626631
E-mail: envirolyte@envirolyte.com

EC-Confirmation
In accordance with Directive 89/392/EC, part II A

We declare that the following mentioned units are manufactured conforming to the Low Voltage Electrical Equipment and Electrical Safety Regulations and are designed to comply with the following European safety and quality standard:

EC-standard: 89/392/EC

Unit types: EL, ELA and ECO types of units with different output capacities varying from 40 to 4000 LPH

Description: Envirolyte water conditioning units

The following European standards were applied:

EN60950 (Low Voltage Directive and Electrical Safety Requirements)
EN55022 (E.M.C Emissions Testing)
EN50082-1 (E.M.C General Immunity Testing)
93/68/EEC (CE Marking LVD Directive)
73/23/EEC (European Low Voltage Directive)
98/37/EEC (European Machinery Directive)
89/336/EEC (Electro Magnetic Compatibility Directive)

Technical documentation is available and an instruction manual for above mentioned units is enclosed to each supplied unit.

This letter of confirmation remains valid for an undefined period, unless the units have been adjusted or altered without written approval of Envirolyte Industries International Ltd.

BUREAU VERITAS Certification

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TTC DISINFECTION

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Spare Parts Warehouse
Centre Almaty



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