

Fighting against viruses



OUR VISION



Our vision is to be the model in counseling services sector and completely nationalize our products.

OUR MISSION



Our mission is to be the first choice of customers and employees with our business types, solutions, high business ethics; to maximize customer satisfaction by providing high standard and quality service; to perform our chemical technologies and consultancy

services in accordance with national and international legal regulations and standards in order to understand and solve the needs of businesses.



*Your health is
important to us*

**Product
Disinfection
Device**



**Disinfection
Cabins**



**Disinfection
System**



**Alcohol-Based
Disinfectant**



Produced in cooperation with TOBB Vocational and Technical Anatolian High School within the scope of the School - Industry Cooperation Project.



WHAT IS OZONE?

Ozone gas is the result of ultraviolet rays of the sun breaking down oxygen in the atmosphere and turning it into ozone molecules. Technologically, it is obtained from the air we breathe or pure oxygen with the help of electron discharge. Due to its natural disinfectant feature, its usage areas have become widespread and it is used safely. Ozone is a gas with very high oxidation power and is the strongest disinfectant ever known. The disinfection effect of ozone gas is 3125 times higher than chlorine under the same conditions. It is more effective than chlorine against spot, cyst, and viruses. In today's conditions, it is used in blood disinfection in hospitals. Also, because Ozone is obtained by breaking down oxygen in the air; after completing the disinfection task due to its unstable structure, it rapidly transforms into oxygen. The fact that ozone gas is the only disinfectant that does not leave a residue after disinfection makes it advantageous to use in food and livestock breeding industries compared to other disinfectants. Moreover, it is not harmful to human health as it does not leave any residue.

Ozone gas is used in water disinfection, food industry, cold storage, deodorisation, swimming pools, color removal, wastewater treatment; nitrite, ammonia, iron, manganese removal, and ambient air disinfection.



DISINFECTION EFFECT OF OZONE ON VIRUSES

Viruses form a parasitic group of biological structures with their extremely small size. Viruses cannot be detected with bacteria filters, nor can they be precipitated by centrifugation. For example, Thiobacillus thermophilus (spor), one of the smallest bacterial group, is 0.5x0.9 microns (1 micron = 0.001 mm), while viruses can be reduced to 0.008 - 0.12 microns. It is certain that the contamination of water with viruses has a great role in the spread of virus diseases. However, virus inactivation is possible with ozone.

WHERE TO USE?

- * Hospitals,
- * Schools,
- * Hotels,
- * Pharmacies,
- * State Institutions and Organizations,
- * Cafe, Restaurant, etc.,
- * Malls,
- * Beauty Salons

WHAT IS ULTRAVIOLET?

The use of UV light can be defined as an attempt to imitate nature. The disinfection system, which produces short UV waves by using a low-pressure mercury lamp, neutralizes the bacterial protozoa and the virus. Niels Ryberg Finsen showed the UV bactericidal effect of the sun in the treatment of infectious skin diseases and received the Nobel Prize in medicine in 1903. In 1930, the Westinghouse developed UV lamps and numerous studies were conducted to prove their germicidal effects. As a result, the inactivating effect of UV rays on viruses, bacteria, fungi, and Mycoplasma was demonstrated.



AIR AND SURFACE DISINFECTION

The main use areas of UV lamps in microbial control are the disinfection of the air and surfaces of operating rooms, laboratories, and biological safety cabins. In addition, they can be used to prevent the spread of airborne diseases by reducing the number of pathogenic microorganisms in the ambient air of indoor places such as nurseries, cafeterias, gymnasiums, hospital rooms where people are crowded together. Portable UV lamps are also used in air and surface disinfection. In addition, commercial systems disinfecting the air passing through UVGI have been developed. Large commercial systems that disinfect the air passing through UVGI have started to be used in the ventilation systems of the buildings [heating, ventilating, and air conditioning (HVAC)]. The use of PUV is increasing in these systems. In a comprehensive study conducted by Douglas Van Osdell et al., In 2002, the effect of UVGI on decontamination of airflow in ventilation systems was investigated and shown to be very high (higher than 90%) for bacteria.

BENEFITS

- ✓ *Low operational cost,*
- ✓ *Low contact time,*
- ✓ *Tasteless and Odorless Feature*
- ✓ *No chemical added,*

Product Disinfection Device





Ozone gas is the natural and strongest disinfectant that occurs as a result of the breakdown of oxygen. It is the most preferred disinfectant in disinfection systems; because it is 3125 times more effective than chlorine. Since this device produces ozone gas itself, it does not require any additional products or chemical products. Production capacity disinfects 1m² area in 1 second. Due to this capacity, applying 10 seconds in clothing products saves the user time. The device is both ergonomic and its energy consumption is very low. No maintenance costs are required. Products are safely disinfected under control thanks to PLC control. In addition to disinfection system, the environment disinfection control system and fully automatic cabin disinfection system are offered as an option.

TECHNICAL SPECIFICATIONS

- ✓ GMT PLC Control System
- ✓ **Video Guidance System**
- ✓ IP65 Protection Class
- ✓ **Air disinfection of 1 m² per second**
- ✓ Company-themed digital printing
- ✓ **7/24 Technical Service**
- ✓ Easy to use
- ✓ **Leakage Current Protection**
- ✓ Ambient Disinfection System (Optional)
- ✓ **Cabin Disinfection System (Optional)**
- ✓ HMI Panel Control System (Optional)

Disinfection System

3 Disinfection Systems in 1 Device





TECHNICAL SPECIFICATIONS

- ✓ GMT PLC Control System
- ✓ **Video Guidance System**
- ✓ Audio Guidance System
- ✓ **Liquid Level Notification System**
- ✓ Ip65 Protection Class
- ✓ **Mobile**
- ✓ A contact-free system with IR Sensor
- ✓ **Air disinfection of 1 m² per second**
- ✓ UV-C Class Lamp
- ✓ **Hands Disinfection in 10 seconds (Alcohol, Ozone Gas, UV Ray)**
- ✓ Company-themed digital printing
- ✓ **7/24 Technical Service**
- ✓ Easy to use
- ✓ **Video and Audio Guidance System For Disabled Customers**

To be effective against viruses, a disinfectant must contain at least 70 degrees of alcohol.



80% Ethyl alcohol, 0.125% Hydrogen Peroxide, 1.45% Glycerin, 18.425% Deionized water

The whole production process is carried out in public schools.

Packaging options are 200 ml, 500 ml, 1 L, 5 L, and 30 L.

IN WHAT SITUATIONS DO HAND SANITIZERS WORK?

HOW DOES THE DISINFECTION MECHANISM WORK?

When there is visible or invisible contamination, hand disinfectant takes an important role to prevent microorganisms that cause disease infecting other people and surfaces. The most common and safest disinfectants are alcohol-based ones. If the alcohol content of alcohol-based disinfectants is not 70 degrees or more, the disinfectant cannot be considered as effective.

SOME DISINFECTANTS HAVE A PUNGENT SMELL WHILE OTHERS MAY CONTAIN PERFUMES. WHICH ONE SHOULD WE TRUST?

We should not smell any disinfectant while disinfecting our hand, because it may be harmful to the respiratory system due to its content. Therefore, the disinfectant with perfume contains does not have any health benefits. It should not be the reason for preference.

DO DISINFECTANTS COMPLETELY KILL THE VIRUS?

Disinfectants are effective against viruses that cause disease in humans such as HIV, Hepatitis B, Influenza or Coronary virus and most non-spore bacteria.

WHAT IS THE MINIMUM ALCOHOL CONTENT FOR HAND DISINFECTANTS AND COLOGNES TO BE EFFECTIVE AGAINST THE VIRUS?

CAN WE USE ALL DISINFECTANTS ON SALE?

WHAT CRITERIA SHOULD WE CONSIDER WHEN BUYING DISINFECTANTS?

Since alcohol-based hand disinfectants evaporate in a very short time, it usually kills most of the microorganisms within 2 to 5 seconds. The alcohol content of alcohol-based disinfectants used in hospitals is adjusted and expiration dates are specified. Substances used in daily life and also known as cologne are the chemicals containing alcohol of 70 degrees and above and thus have a disinfection effect. Since the alcohol content of the cologne left open will evaporate quickly, the germ-killing feature may decrease. For this reason, large amounts of disinfectants and household colognes are chemicals that have a disinfectant feature between 60 and 90 degrees, provided that they are kept closed.

HOW SHOULD HAND SANITIZER BE APPLIED TO GET MAXIMUM BENEFIT?

For the disinfectant to be effective the palm must be filled with disinfectant and it must be spread by rubbing. Since it evaporates in a very short time and has the ability to kill bacteria and viruses within 2 seconds, it must be spread quickly on the hand.

DISINFECTION SYSTEMS

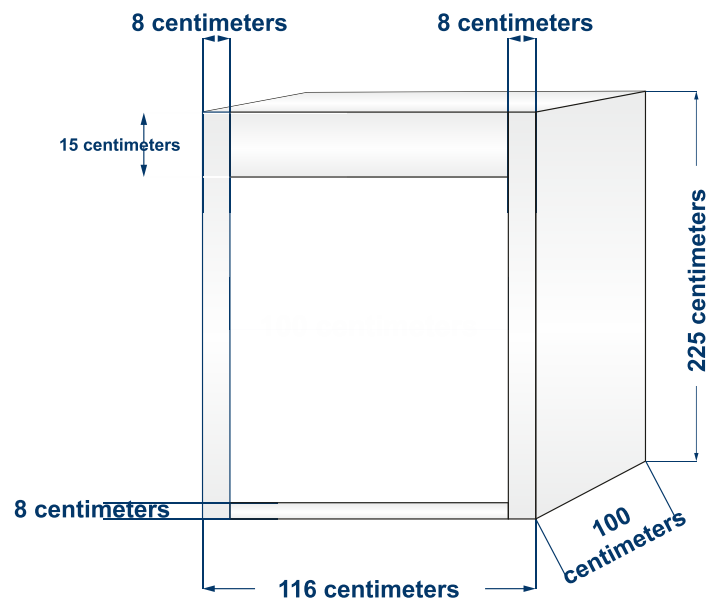
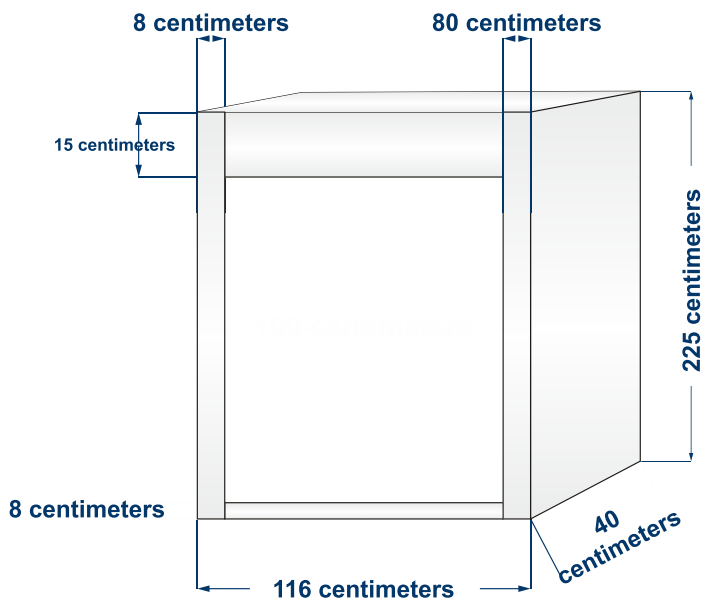


DISINFECTION TUNNEL AND DOOR MODEL DIMENSIONS



DK100

DT100



PRODUCT FEATURES

- ✓ Polyethylene liquid tank,
- ✓ IP 65 protection class,
- ✓ Chemical level warning system,
- ✓ Durable steel body structure,
- ✓ Easy assembling,
- ✓ Passage sign lights,
- ✓ Nozzle System with particle holder,
- ✓ Anti-slip mat,
- ✓ Easy to use and low maintenance cost,
- ✓ 7/24 technical service network,
- ✓ Special digital printing and cladding,
- ✓ Minimum chemical consumption with I R sensor system,
- ✓ I / O control system

TECHNICAL FEATURES

- ✓ 1,5 mm galvanized sheet metal casing,
- ✓ Digital foil cladding,
- ✓ High-pressure pump with a brass body,
- ✓ Bypass control,
- ✓ Liquid level electrode,
- ✓ IR laser sensor system,
- ✓ Emergency stop,
- ✓ Audible warning system,
- ✓ Motor with the aluminum cooling body,
- ✓ IP 65 protection class,
- ✓ PLC software,
- ✓ Easy spray nozzle,
- ✓ I / O IR sensors,
- ✓ I / O facilitating LED lights,
- ✓ Residual current relay

ADDITIONAL FEATURES AND OPTIONS

- ✓ Case and fluid tank options with variable dimensions
- ✓ Direct liquid installation option
- ✓ Solar panel insert options

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Merkez (Head Office)
Musalla Bağları Mah. Kule Cad.
Selçuklu Kulesi 2/31 Selçuklu/Konya/TURKEY
T +90 850 885 0 442 F +90 332 330 0 442
info@anametal.com www.anametal.com

Export Contact
Tel +90 850 885 0 442
Whatsapp1: +90 533 499 23 43
Whatsapp2: +90 555 481 62 82
e-mail: sales@anametal.com