

# ArtecMed Product Catalogue

The barrier protecting you against germs.



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ARTEC Group has over 20 years of history. Based in Hong Kong, the business has expanded to 19 subsidiaries in response to different areas and established offices in 7 countries around the world. We have been committing to utilizing technology to improve human life from cosmetics to medical supplies industry. ArtecMed is an ARTEC brand dedicated to medical development.

Artenano in ARTEC Group has been engaging in nanotechnology and environmental technology research since 2005. The collaboration between Artenano and the Hong Kong Science Park has contributed to the development of technology through research projects with local universities. ArtecMed's products are developed by using Artenano's technology.

ArtecMed applies its nanotechnology to improve the quality of human life, providing expertise and products in scientific analysis, antibacterial, indoor air improvement and UV protection. ArtecMed products strive to bring everyone a safer and healthier life with technology.

# SARS-CoV-2 Rapid Antigen Test Kits (Colloidal Gold)

Utilizing Lateral Flow Immunoassay and Colloidal Gold technology to effectively, speedily and accurately detect SARS-CoV-2 antigens of novel coronavirus variants.

Available for self-testing at home, the Test Kits let you or your family know your health status promptly and take immediate action to terminate widespread of CoVID-19.

The novel coronaviruses belong to a  $\beta$  genus. COVID-19 is an acute respiratory infectious disease. Humans are generally susceptible to it.

ArtecMed SARS-CoV-2 Rapid Antigen Test Kits are for the rapid qualitative detection of SARS-CoV-2 nucleocapsid protein antigen in human nasopharyngeal or oropharyngeal (and possibly, nasal or saliva) swab specimens. The results are used for the detection of SARS-CoV-2 antigens. The antigen is generally detectable in upper respiratory tract specimens during the acute phase of infections.

ArtecMed SARS-CoV-2 Rapid Antigen Test Kits are qualitative, membrane-based immunoassays for the detection of nucleolus protein antigens of SARS-CoV-2. The test line region is immobilized with SARS-CoV-2 antibody. If the specimen contains SARS-CoV-2 antigens, it will react with the SARS-CoV-2 antibody in the test line region. A coloured line appears in the test line region (T) as a result. As a procedural control, a coloured line appears in the control line region (C) indicating that the correct volume of sample has been added and membrane capillary action has occurred correctly.

<b>WHO-recommended :</b>	Sensitivity and Specificity of the Test Kits achieves far beyond World Health Organization (WHO) Recommendation
<b>Variants Detection :</b>	Effectively detect variants of the novel coronavirus, including Alpha, Beta, Delta, Epsilon, Zeta and Omicron.

## European Centre for Disease Prevention and Control (ECDC) data confirms that the sensitivity of the Test Kit is higher than that of similar products<sup>1</sup>

<b>Excellent Sensitivity :</b>	Clinically proven sensitivity of 96.77%
<b>Extreme Specificity :</b>	Clinically proven specificity of 100% attainable
<b>Simple Steps :</b>	4 simple steps involved. Applicable for nasal pharynx / anterior nasal / pharynx / saliva sampling
<b>Equipment Manufacturer :</b>	Shenzhen Lvshiyuan Biotechnology Co., Ltd.

Table 1: Clinical Study (nasopharyngeal)

ArtecMed Green Spring SARS CoV-2 Antigen Rapid Test Kit (Colloidal Gold)	PCR-Comparator		Total
	Positive	Negative	
<b>Positive</b>	150	0	150
<b>Negative</b>	5	210	215
<b>Total</b>	155	210	365
<b>Sensitivity</b>	96,77% (95%CI: 92,24-98,81%)		
<b>Specificity</b>	100,00% (95%CI: 97,76-100%)		
<b>Accuracy</b>	98,63% (95%CI: 96,89-100%)		

PPA(Ct≤ 37): 96,77% (150/155), (95%CI: 92,24-98,81%)

NPA(Ct≤ 37): 100,00% (21&210), (95%CI: 97,76-100%)



<sup>1</sup> Comparative sensitivity evaluation for 122 CE-marked rapid diagnostic tests for SARS-CoV-2 antigen, Germany, September 2020 to April 2021

<b>Excellent Sensitivity :</b>	Clinically proven sensitivity of 98.33%
<b>Extreme Specificity :</b>	Clinically proven specificity of 100% attainable
<b>Simple Steps :</b>	4 simple steps involved. Applicable for nasal pharynx / anterior nasal / pharynx / sampling
<b>Reliable manufacturing :</b>	Manufactured by provincial designated manufacturer of novel coronavirus detection reagents
<b>Equipment Manufacturer :</b>	Triplex International Biosciences (China) Co., Ltd.

Clinical study (overall result)

ArtecMed SARS-CoV-2 Antigen Rapid Test Kit \ RT-PCR test	RT-PCR test		Total
	Positive	Negative	
Positive	295	0	295
Negative	5	891	896
Total	300	891	1191

Sensitivity : 98.33% (95%CI: 95.93% - 99.38%)

Specificity : 100% (95%CI: 99.46% - 100%)

Accuracy : 99.58%

Clinical study (human nasopharyngeal swab)

ArtecMed SARS-CoV-2 Antigen Rapid Test Kit \ RT-PCR test	RT-PCR test		Total
	Positive	Negative	
Positive	100	0	100
Negative	0	603	603
Total	100	603	703

Sensitivity : 100% (95%CI: 95.39% - 100%)

Specificity : 100% (95%CI: 99.21% - 100%)

Accuracy : 100%

**Extensive clinical research involving 1,191 patients has been conducted by university affiliated hospital to evaluate clinical performance of the Test Kit**



<b>Excellent Sensitivity :</b>	Clinically proven sensitivity of 98.31%
<b>Extreme Specificity :</b>	Clinically proven specificity of 100% attainable
<b>Simple Steps :</b>	4 simple steps involved. Applicable for nasal pharynx / pharynx sampling
<b>Equipment Manufacturer :</b>	Triplex International Biosciences (China) Co., Ltd.

*Clinical study*

(Summary of nasopharyngeal and oropharyngeal)

COVID-19 antigen		Diagnostics		Total
		Positive	Negative	
RT-PCR	Positive	406	7	413
	Negative	0	207	207
Total		406	214	620

Sensitivity : 98.31% (406/413) , (95%CI = 96.55%-99.18%)

Specificity : 100% (207/207) , (95%CI = 98.18%-100%)

Accuracy : 98.87%

PPA - Positive Percent Agreement (Sensitivity)

NPA - Negative Percent Agreement (Specificity)

**Sensitivity comparable to that of professional reverse transcription polymerase chain reaction detection (RT-PCR), ensuring accurate and reliable data**



# Silver Hand Sanitizer & Silver Nanocatalyst

## Silver Hand Sanitizer

ARTEC Silver Hand Sanitizer represents the forefront of antibacterial silver product development. It is effective, safe and gentle on the skin.

- Moisturizing spray suitable for sensitive skin
- Alcohol free
- Indoor disinfection for up to 24 hours<sup>^</sup>
- Eliminates up to 99.9% bacteria and viruses
- Effective against coronaviruses and drug resistant bacteria

<sup>^</sup>Average of logarithmic values of viable cell count at T24 is 0 after treated with Silver Hand Sanitizer



**SILVER NANOCATALYST  
ANTIBACTERIAL FILTER**

## Silver Nanocatalyst

Silver has long been treasured as a precious metal and has been used to prevent infection. Silver has been utilized in lots of medical applications including coating on bandages, wound-dressings and other medical instruments. With nanotechnology, the efficacy of silver as nanocatalyst has become even more mature.

ArtecMed always strikes to infuse technology into daily life. ArtecMed cooperates with Hong Kong University of Science and Technology and Hong Kong Science Park, introducing the Silver Nanocatalyst Antibacterial Technology to different products to perfect their quality and efficiency.

Nanocatalyst antibacterial filter in the air-purifier can eliminate kinds of bacteria, creating a cleaner and safer place for your living. The filter is washable for repeated use, absolutely environmental-friendly.



# Silver Nanocatalyst Series Air Sterilizing Purifier – Home

## **MULTIPLE CUTTING-EDGE AIR PURIFICATION TECHNOLOGY**

### **Pre-filter**

Removes particles larger than 2.5 mm such as hair and dander. Prolongs service lives of other components in the Purifier.

### **HEPA13 Filter**

Filters out carcinogenic PM2.5 particulates and harmful pollutants down to 0.3 microns including moulds, spores, dust mites, pollen, etc.

Helps soothing allergic rhinitis, asthma and respiratory discomforts.

### **Activated Carbon Filter with Zeolite**

Absorbs volatile organic compounds and eliminates smell from paints and new furniture, smoke, sweat, animal odour and cooking fumes.

### **Silver Nanocatalyst Filter**

Scientific research achievements in cooperation with local university introduces long-term broad-spectrum sterilization.

### **Photocatalyst + UV Sterilization Technology**

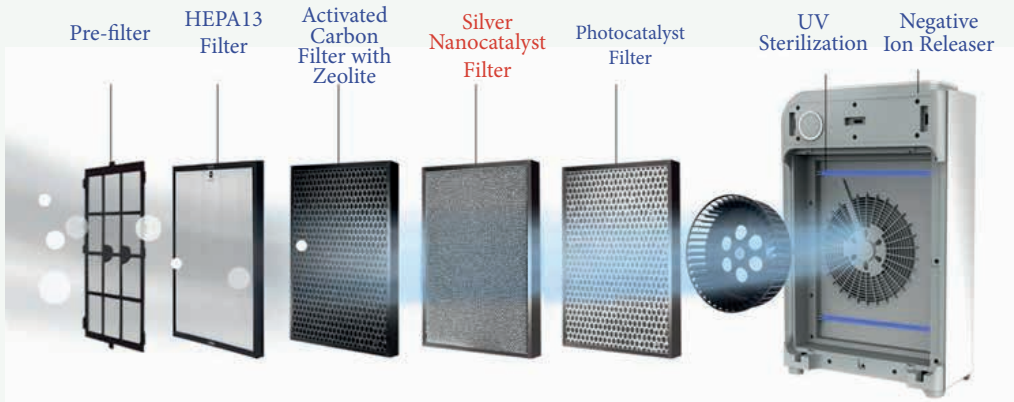
Technology duo eliminates bacteria and viruses while wipes out volatile organic compounds.

### **VOC (available in AP5006) and PM2.5 Monitoring System**

Equipped with high performance real-time monitoring system of VOC and PM2.5 level. Allows auto adjustment of windspeed and visualizes the cleanliness of surrounding air.

### **Negative Ion Releaser**

Releases negative ions to neutralize positively charged dust and forms a dust-falling effect. Significantly improves indoor air quality.





# Professional Air Sterilizing Purifier



## Patented Silver Nanocatalyst Filter

Local university R&D achievement  
Instantly eliminates 99% bacteria

## High-Efficiency Particulate Air (HEPA)13 Filter

HEPA13 filter effectively remove allergens and filters carcinogenic PM2.5 particulates

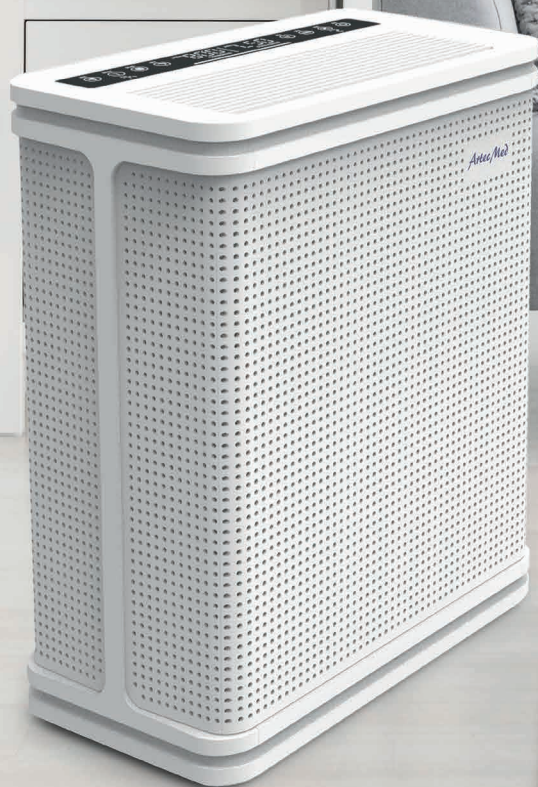
## UV Sterilization Technology

UV Sterilization Technology  
Photocatalyst + UV sterilization technology duo eliminates bacteria and viruses while wipes out VOCs

Coverage Area	24 - 40m <sup>2</sup>
Dimension	402 × 186 × 624mm
Net Weight	8.6 KG
Rated Power	55W
Rated Voltage	220 - 240 V
Timer	1-4-8h
CADR	310 m <sup>3</sup> /h
Filtration System	Pre-filter / HEPA13 Filter / Activated Carbon Filter / Silver Nanocatalyst Filter / Photocatalyst + UV Lamp / PM2.5 Monitoring System / Negative Ion Releaser
Windspeed Level	4



# High Volume Air Sterilizing Purifier



## Patented Silver Nanocatalyst Filter

Local university R&D achievement  
Instantly eliminates 99% bacteria

## High-Efficiency Particulate Air (HEPA) 13 Filter

HEPA13 filter effectively remove allergens and filters carcinogenic PM2.5 particulates

## UV Sterilization Technology

Photocatalyst + UV sterilization technology duo eliminates bacteria and viruses while wipes out VOCs

- **Double-side purification system offers double protection**

Coverage Area	75 - 87 m <sup>2</sup>
Dimension	462 × 268 × 558 mm
Net Weight	15 KG
Rated Power	65W
Rated Voltage	220 - 240 V
Timer	1-4-8h
CADR	690 m <sup>3</sup> /h
Filtration System	Pre-filter / HEPA13 Filter / Silver Nanocatalyst Filter / Photocatalyst + UV Lamp / VOCs & PM2.5 Monitoring System / Negative Ion Releaser
Windspeed Level	4

# Anti-epidemic Series Face Mask

ASTM F2100-19 is the standard specification for performance of materials used in medical face masks by ASTM International (American Society for testing and materials). Based on the performance of filtration testing for BFE (Bacterial Filtration Efficiency), PFE (Particle Filtration Efficiency),  $\Delta P$  (Breathability), Synthetic Blood Penetration Resistance and Flame Spread, the masks are classified into 3 levels.

ArtecMed provides face masks meeting different performance levels enacted by ASTM to fulfill different needs.

## Medical Face Mask Material Requirements by Performance Level

Characteristic	Level 1	Level 2	Level 3
Bacterial filtration efficiency (BFE), %	$\geq 95$	$\geq 98$	$\geq 98$
Differential pressure, mm H <sub>2</sub> O/cm <sup>2</sup>	<5.0	<6.0	<6.0
Sub-micron particulate filtration efficiency at 0.1 micron (PFE), %	$\geq 95$	$\geq 98$	$\geq 98$
Resistance to penetration by synthetic blood, minimum pressure in mmHg for pass result	80	120	160
Flame spread	Class1	Class1	Class1

In 2020, our manufacturing site in Hong Kong is granted with ISO 13485:2016 for Medical Device Quality Management Systems.

ArtecMed Silver Antibacterial Masks doped with silver ions effectively eliminate germs, prevent cross contamination when users' hands are in touch with the mask, in order to prolong product lifetime.

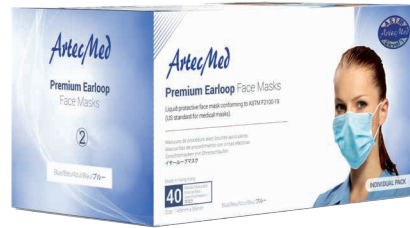


**Adult Size - Blue**  
Size : 175mm x 95mm

**ASTM Level 1 - 3**  
Individual Pack / non-Individual Pack

**Ladies and Junior Size - Blue**  
Size : 145mm x 95mm

**ASTM Level 1 - 3**  
non-Individual Pack / Individual Pack



**Children Size - Pale yellow**  
Size : 120mm x 80mm

**ASTM Level 1 - 3**  
Individual Pack / non-Individual Pack



**Silver Antibacterial Mask**  
**Adult Size - Grey**  
Size : 175mm x 95mm

**ASTM Level 3**  
Individual Pack

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# Anti-epidemic Series KN95/N95p

This healthcare respirator is designed to help provide protection against particulate aerosols free of oils. It also helps to protect against certain airborne biological particles. Fluid resistant and disposable.

- Soft headbands, cushioning nose foam, and light weight construction for comfortable wear
- Latex-free
- Individually packed

Standards for Medical/Professional Usage:

ArtecMed N95p is complied with NIOSH 42 CFR 84 standard.

ArtecMed KN95 is complied with GB2626 and GB19083 standards.

**N95p**  
Individual Pack



**KN95**  
Individual Pack



# Anti-epidemic Series Gloves & Infrared Forehead Thermometer

## Powder-free Vinyl Disposable Gloves

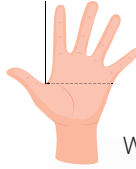
- Prevent contact pollution.
- Protect from potentially contaminated objects.
- Soft and flexible, comfortable for lengthy wear.
- Latex-free, suitable for all and those allergic to latex.
- Powder-free, adaptable for house cleaning, food industry and cooking, non-medical use.
- No plastic odour, safe to contact with food.

Specification:

S: 230mm L x 85mm (±5) W

M: 230mm L x 95mm (±5) W

L: 230mm L x 105mm (±5) W



Width Measurement



- High-precision infrared sensor with stable and reliable performance
- One touch access, one-touch switch to capture body/surface/room temperature
- Automatically save the last measured value
- Large LCD screen, high brightness, clear display

# 015

# Anti Bacterial Hand Sanitizer/Spray

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## **WHO Formulation 1 - eliminates 99% of germs**

Alcohol concentration in disinfectant is a key factor to determine its effectiveness. If the proportion is insufficient, the alcohol cannot exhibit its disinfectant properties properly. According to WHO standards, 80% ethanol can effectively sterilize while 75% can eliminate Coronavirus as stated in the Novel Coronavirus Pneumonia Diagnosis and Treatment Plan.

Ethanol - gentle & non-irritating

There are two main types of disinfecting alcohols - Isopropyl alcohol and Ethanol

Isopropyl alcohol evaporates slower than ethanol, resulting in longer stay on skin and is more susceptible to sensitivity. Meanwhile ethanol costs higher due to its production costs and higher demands in many other chemical applications. Thus isopropyl alcohol is widely used in antiseptic products despite its take-ins.

ArteMed products use skin-tolerant ethanol and are specially formulated with glycerin, Aloe Vera and vitamin E to reduce dryness and irritation.



# Anti Bacterial Hand Sanitizer/Spray

## WHO Formulation I, effectively sterilizes your hands

- >75% gentle ethanol, eliminates 99.9% of germs.
- Non-rinse, feeling light and refreshed after use.
- Potent anti-oxidant Vitamin E added to prevent pre-mature skin ageing.
- Aloe Vera in sanitizers moisturizes and soothes skin, preventing skin dryness and irritation.



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# Anti Bacterial – Alcohol Wipes & Automatic Hand Sanitizer Dispenser

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## Alcohol Wipes

- Eliminates 99% of germs, sterilizes skin and readily contaminated items.
- Ethanol rapidly evaporates and leaves your hand refreshed without any sticky feeling.
- Soft texture, gently and thoroughly cleanses.
- Fragrance-free, non-irritating.
- Strong resealable sticker prevents ethanol evaporation and retains disinfection efficacy.

Specification:

Family Pack 30pcs : 180x 140mm

Individual Pack 50pcs : 110 x 150mm



## Automatic Hand Sanitizer Dispenser

- Automatic, eliminating touch points to reduce the spread of germs.
- Large capacity which requires less frequent refills.
- Drip tray catches spill splashes so your floors remain clean.
- Portable stands for easy wall-free placement. Wall-mount option available.

# All-purpose Sanitizer Spray

## Sanitizers --- CHG

CHG is also an effective antiseptic besides alcohol and widely used in advanced medical practice. It not only meets the EU specifications, but also listed as the Essential Medicines by WHO, the safest and most effective medicines needed in a health system. Recommend being used on adults, children, and animals.

- CDC recommends to be used on children. #1
- Antiseptics used in neonatal units. #2
- Listed by WHO as the safest and most effective medicines. #3
- Mouthwash ingredient in dentist prescription.

#1 Widely used topical antiseptic that is recommended by the Centers for Disease Control and Prevention for skin cleansing before central venous catheter insertion in children.

#2 A survey from 90 NICUs in United States on CHG use, reported that 61% of the units used CHG containing preparations

#3 Listed by WHO as the Essential Medicines in 2019



### Guard your family, children and pets from germs

- Highly inhibits viruses and eliminates 99.99% of bacteria.
- Indoor disinfection for up to 24 hours.^
- Simply spray on skin, hair, clothes, shoes, toys or frequently used items by children to disinfect.
- Gentle formula, can be used to sterilize the pet's skin/hair.

^Average of logarithmic values of viable cell count at T24 is 0 after treated with All-purpose Sanitizer Spray

# 019

A man and a woman are jogging on a paved path in a park. The woman is in the foreground, wearing a light blue tank top and grey shorts, smiling. The man is behind her, wearing an orange t-shirt and black shorts, also smiling. The background is a lush green park with trees and sunlight filtering through the leaves.

# ArtecMed<sup>®</sup>

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Artec Chemical Company Limited

With our R&D and manufacturing facilities centered in Hong Kong, we are proud to deliver advanced expertise and innovations to match your needs.

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