

## **COVID UPDATE: Panasonic Air Conditioners with nanoe™ X Confirmed to Inhibit the Novel Coronavirus**

**Global contract research organisation certifies the inhibitory effect of Panasonic Air Conditioners with nanoe™ X Technology on the Novel Coronavirus: 91.4% in 8 hours in a 6.7m<sup>3</sup> space**

**January 14, 2021, Manila, Philippines** - Panasonic Manufacturing Philippines Corporation (PMPC) announced today a new breakthrough confirming that the inhibitory effect on the novel coronavirus (SARS-CoV-2) by the Panasonic Air Conditioner with nanoe™ X Technology was certified by Texcell\*<sup>1</sup>, a global contract research organisation.

Texcell verified 91.4% of the inhibitory effect on the novel coronavirus in the space of 6.7m<sup>3</sup> in 8 hours.

In September 2020, Panasonic has verified, in collaboration with Texcell, the inhibitory effect of the nanoe™ X Technology with the benefits of hydroxyl radicals on the novel coronavirus in a small test space of 45L using the nanoe™ X generator.

For further investigation, Panasonic challenged to test using the air conditioner with nanoe™ X in a larger test space. Even with the more challenging test parameters, Texcell has now certified that the Panasonic Air Conditioner with nanoe™ X Technology has 91.4% inhibitory effect on the novel coronavirus in the actual space of 6.7m<sup>3</sup> in 8 hours. This testing was carried out in a closed laboratory environment and was not designed to assess its efficacy in uncontrolled living spaces.

### **About nanoe™ X Technology**

nanoe™ X is a technology unique to Panasonic that collects invisible moisture in the air and applies a high voltage to it to produce “hydroxyl radicals contained in water”. Hydroxyl radicals inhibit the growth of pollutants such as bacteria and viruses. They are characterised by being strongly oxidative and highly reactive, but normally have a short life span. Contained in tiny water particles, nanoe™ X has a long lifespan and can spread over long distances. It has an inhibitory effect on both airborne and adhered substances.

### **Safer spaces are a must**

With the threat of the novel coronavirus continuously looming and with vaccines not yet massively distributed or administered locally, Filipinos continue to struggle with safer breathing spaces and to ensure healthier home and work environments for loved ones and colleagues.

With this study update, one thing is assured: Filipinos can get 24-hour cleaner and safer air indoors, with the presence of Panasonic Air Conditioners in homes, schools, offices, and businesses. In fact, in 24 hours, Panasonic Air Conditioners with nanoe™ X Technology have an inhibition rate of 99.7% on the novel coronavirus, also tested in a 6.7m<sup>3</sup> space.

Apart from its Split-type Air Conditioners with nanoe™ X Technology, Panasonic also offers a portable solution for the Filipino consumers, the Portable nanoe™ X Generator. The small device is also equipped with nanoe™ X Technology that’s proven to inhibit harmful air pollutants and viruses.

### The plight for A Better Life, A Better World continues

Panasonic has been researching on nanoe™ Technology over the past 20 years since 1997 and has verified its effectiveness in a variety of areas, including inhibiting pathogenic microorganism (bacteria, fungi, and viruses) and allergens, breaking down PM 2.5 components that have adverse effects on the human body\*2.

Panasonic will continue to pursue the potential of nanoe™ X Technology to address possible risks associated with air pollution such as new pathogenic microorganisms, to create healthy environments and A Better Life, A Better World for people around the world.

#### For reference:

Testing the inhibitory effect of air conditioner with nanoe™ X on the novel coronavirus (SARS-CoV-2) in a space of 6.7m<sup>3</sup>.

#### • Overview

A comparative verification was conducted in a space of 6.7m<sup>3</sup> containing the novel coronavirus. (SARS-CoV-2)

#### • Results

Over 91% of novel coronavirus (SARS-CoV-2) activity was inhibited within 8 hours.

Note: This verification was designed to generate basic research data on the effects of nanoe™ X on the novel coronavirus in laboratory conditions different from those found in living spaces.

#### • Methodology and data

Organisation : Texcell (France)

Subject : Novel coronavirus (SARS-CoV-2)

Device : Air conditioner with nanoe™ X

Method:

- The air conditioner with nanoe™ X was installed in a space of 6.7m<sup>3</sup>.
- Gauze saturated with SARS-CoV-2 virus solution was exposed to an air conditioner with nanoe™ X from a distance of 0.7m in a 6.7m<sup>3</sup> room for 24 hours.
- The virus infectious titre was measured and used to calculate the inhibition rate.

#### • Test result

Test subject	Inhibition rate	Capacity	Hours
SARS-CoV-2	42.4%	6.7 m <sup>3</sup>	4 hours
SARS-CoV-2	91.4%	6.7 m <sup>3</sup>	8 hours
SARS-CoV-2	99.7%	6.7m <sup>3</sup>	24 hours

### **About Panasonic**

Panasonic Corporation is a worldwide leader in the development of diverse electronics technologies and solutions for customers in the consumer electronics, housing, automotive, and B2B businesses. The company, which celebrated its 100<sup>th</sup> anniversary in 2018, has expanded globally and now operates 528 subsidiaries and 72 associated companies worldwide, recording consolidated net sales of 7.49 trillion yen for the year ended March 31, 2020. Committed to pursuing new value through innovation across divisional lines, the company uses its technologies to create a better life and a better world for its customers.

### **About Panasonic Air-Conditioning Philippines**

Panasonic Air-Conditioning Philippines is the air-conditioner business sales division responsible for product marketing of Panasonic Air Conditioners in the Philippines.

Contact:

#### **Mr. Francis Serrato**

Communications & Product Planning Manager  
Panasonic Air-Conditioning Philippines  
[francis.serrato@ph.panasonic.com](mailto:francis.serrato@ph.panasonic.com)

### **About Panasonic Philippines**

Panasonic Philippines is the consumer sales division of Panasonic Manufacturing Philippines Corporation, responsible for the sales and marketing of the Panasonic brand of consumer electronics and home appliances in the Philippines. For more information on Panasonic Philippines and its products, visit our website at [www.panasonic.com/ph](http://www.panasonic.com/ph).

#### **Contact: Mr. Harry Sarmiento**

Marketing and Product Planning Executive Officer  
Panasonic Manufacturing Philippines Corporation  
[harry.sarmiento@ph.panasonic.com](mailto:harry.sarmiento@ph.panasonic.com)

### **MEDIA CONTACT**

Ms. Phoenix Manayaga  
Marketing Communications Manager  
Panasonic Manufacturing Philippines Corporation  
[phoenixdianne.manayaga@ph.panasonic.com](mailto:phoenixdianne.manayaga@ph.panasonic.com)

### **Notes:**

\*1: Texcell is a global contract research organisation that specialises in viral testings, viral clearance, immunoprofiling and R&D or GMP cell banking, for your R&D, GCIP, GLP and GMP projects.

With more than 30 years of experience and roots within the Pasteur Institute in Paris, Texcell has a long recognized expertise in viral testing with a broad range of protocols for the detection of adventitious agents.

Texcell is the first spin-off of the Pasteur institute of Paris created in 1997.

\*2: Main releases on verification cases

- May 12, 2009: Positive effects of charged water particles on viruses, bacteria, and agricultural chemicals have been verified.

- October 20, 2009: The new influenza virus inhibition effect of charged water particles has been verified.

- February 20, 2012: Suppression effect of charged water particles on pet-related allergens, bacteria, fungi, and viruses have been verified.

- January 16, 2014: Nano-sized electrostatic atomised water particles effectively breaks down PM2.5 components and inhibits growth of fungi attached to Yellow Sand.

APPENDICES:

**Panasonic Elite Inverter Sky Series Aircon**

**CS/CU-VU9UKQ (1.0HP), CS/CU-VU12UKQ (1.5HP), CS/CU-VU18UKQ (2.0HP)**



<https://www.panasonic.com/ph/consumer/air-conditioners/split-type-airconditioner/sky-series-model.html>

nanoe™ X Features	nanoe™ X Applications
<p><b>Inhibits Bacteria and Viruses (airborne/adhered)</b> Inhibits the growth of bacteria and viruses adhering to surfaces. Also effective in inhibiting mould, allergens, pollen and hazardous substances.</p> <p><b>Deodorisation</b> Deodorises unpleasant smells such as cigarette smoke, perspiration &amp; damp towels.</p> <p><b>Moisturises Skin &amp; Hair</b> Stay refreshed by providing moisture balance resulting to smooth, hydrated skin and hair.</p>	<p><b>24 Hour Quality Air</b> nanoe™ X can purify air for 24 Hours with cooling on &amp; off (with or without running compressor).</p> <p><b>Sleep with Clean Air</b> Sleep well in a room that is free from harmful pollutants in the air.</p>

### Panasonic Premium Inverter Aero Series Aircon

CS/CU-XU9VKQ (1.0HP), CS/CU-XU12VKQ (1.5HP), CS/CU-XU18VKQ (2.0HP), CS/CU-XU24VKQ (2.5HP), CS/CU-XU30VKQ (3.0HP)



<https://www.panasonic.com/ph/consumer/air-conditioners/split-type-airconditioner/aero-series-premium-inverter.html>

nanoe™ X Features	nanoe™ X Applications
<p><b>Inhibits Bacteria and Viruses (airborne/adhered)</b> Inhibits the growth of bacteria and viruses adhering to surfaces. Also effective in inhibiting mould, allergens, pollen and hazardous substances.</p> <p><b>Deodorisation</b> Deodorises unpleasant smells such as cigarette smoke, perspiration &amp; damp towels.</p> <p><b>Moisturises Skin &amp; Hair</b> Stay refreshed by providing moisture balance resulting to smooth, hydrated skin and hair.</p>	<p><b>24 Hour Quality Air</b> nanoe™ X can purify air for 24 Hours with cooling on &amp; off (with or without running compressor).</p> <p><b>Sleep with Clean Air</b> Sleep well in a room that is free from harmful pollutants in the air.</p>

**Panasonic Deluxe Inverter Aero Series Aircon**

CS/CU-XPU9WKQ (1.0HP), CS/CU-XPU12WKQ (1.5HP), CS/CU-XPU18WKQ (2.0HP)



<https://www.panasonic.com/ph/consumer/air-conditioners/split-type-airconditioner/aero-series-deluxe-inverter.html>

nanoe™ X Features	nanoe™ X Applications
<p><b>Inhibits Bacteria and Viruses (airborne/adhered)</b> Inhibits the growth of bacteria and viruses adhering to surfaces. Also effective in inhibiting mould, allergens, pollen and hazardous substances.</p> <p><b>Deodorisation</b> Deodorises unpleasant smells such as cigarette smoke, perspiration &amp; damp towels.</p> <p><b>Moisturises Skin &amp; Hair</b> Stay refreshed by providing moisture balance resulting to smooth, hydrated skin and hair.</p>	<p><b>24 Hour Quality Air</b> nanoe™ X can purify air for 24 Hours with cooling on &amp; off (with or without running compressor).</p> <p><b>Sleep with Clean Air</b> Sleep well in a room that is free from harmful pollutants in the air.</p>

### Ceiling Cassette Packaged Air Conditioner

S/U-18PU2Q6 (2.0HP), S/U-21PU2Q6 (2.5HP), S/U-24PU2Q6 (3.0HP), S/U-30PU2Q6 (3.5HP), S/U-34PU2Q6 (4.0HP), S/U-43PU2Q6 (5.0HP), S/U-48PU2Q6 (6.0HP)



<https://aircon.panasonic.com/business/lineup/pac.html>

nanoe™ X Features	nanoe™ X Applications
<p><b>Inhibits Bacteria and Viruses (airborne/adhered)</b> Inhibits the growth of bacteria and viruses adhering to surfaces. Also effective in inhibiting mould, allergens, pollen and hazardous substances.</p> <p><b>Deodorisation</b> Deodorises unpleasant smells such as cigarette smoke, perspiration &amp; damp towels.</p> <p><b>Moisturises Skin &amp; Hair</b> Stay refreshed by providing moisture balance resulting to smooth, hydrated skin and hair.</p>	<p><b>24 Hour Quality Air</b> nanoe™ X can purify air for 24 Hours with cooling on &amp; off (with or without running compressor).</p> <p><b>Sleep with Clean Air</b> Sleep well in a room that is free from harmful pollutants in the air.</p>

### Ceiling Cassette VRF-FSV System Indoor

S-22MU2E5A, S-28MU2E5A, S-36MU2E5A, S-45MU2E5A, S-56MU2E5A, S-60MU2E5A, S-73MU2E5A, S-90MU2E5A, S-106MU2E5A, S-140MU2E5A, S-160MU2E5A (should come with CZ-CNEXU1 nanoe™ X adaptor, CZ-KPU3H panel, CZ-RTC5B wired remote or CZ-RWSU3+CZ-RWRU3 wireless remote control)



<https://aircon.panasonic.com/business/lineup/vrf.html>

nanoe™ X Features	nanoe™ X Applications
<p><b>Inhibits Bacteria and Viruses (airborne/adhered)</b> Inhibits the growth of bacteria and viruses adhering to surfaces. Also effective in inhibiting mould, allergens, pollen and hazardous substances.</p> <p><b>Deodorisation</b> Deodorises unpleasant smells such as cigarette smoke, perspiration &amp; damp towels.</p> <p><b>Moisturises Skin &amp; Hair</b> Stay refreshed by providing moisture balance resulting to smooth, hydrated skin and hair.</p>	<p><b>24 Hour Quality Air</b> nanoe™ X can purify air for 24 Hours with cooling on &amp; off (with or without running compressor).</p> <p><b>Sleep with Clean Air</b> Sleep well in a room that is free from harmful pollutants in the air.</p>

## Panasonic Portable nanoe™ Generator

F-GPT01A-K, F-GPT01A-R



nanoe™ X Features	nanoe™ X Applications
<p><b>Inhibits Bacteria and Viruses (airborne/adhered)</b> Inhibits the growth of bacteria and viruses adhering to surfaces. Also effective in inhibiting mould, allergens, pollen, and hazardous substances.</p> <p><b>Deodorisation</b> Deodorises unpleasant smells such as cigarette smoke, perspiration, &amp; damp towels.</p>	<p><b>24 Hour Quality Air</b> nanoe™ X can be used as an independent air purifier that purifies air for 24 Hours.</p> <p><b>Can Be Used Anywhere</b> Effective in small spaces such as bathroom or inside a car, inhibits activity of bacteria and viruses and deodorises unpleasant smells.</p>