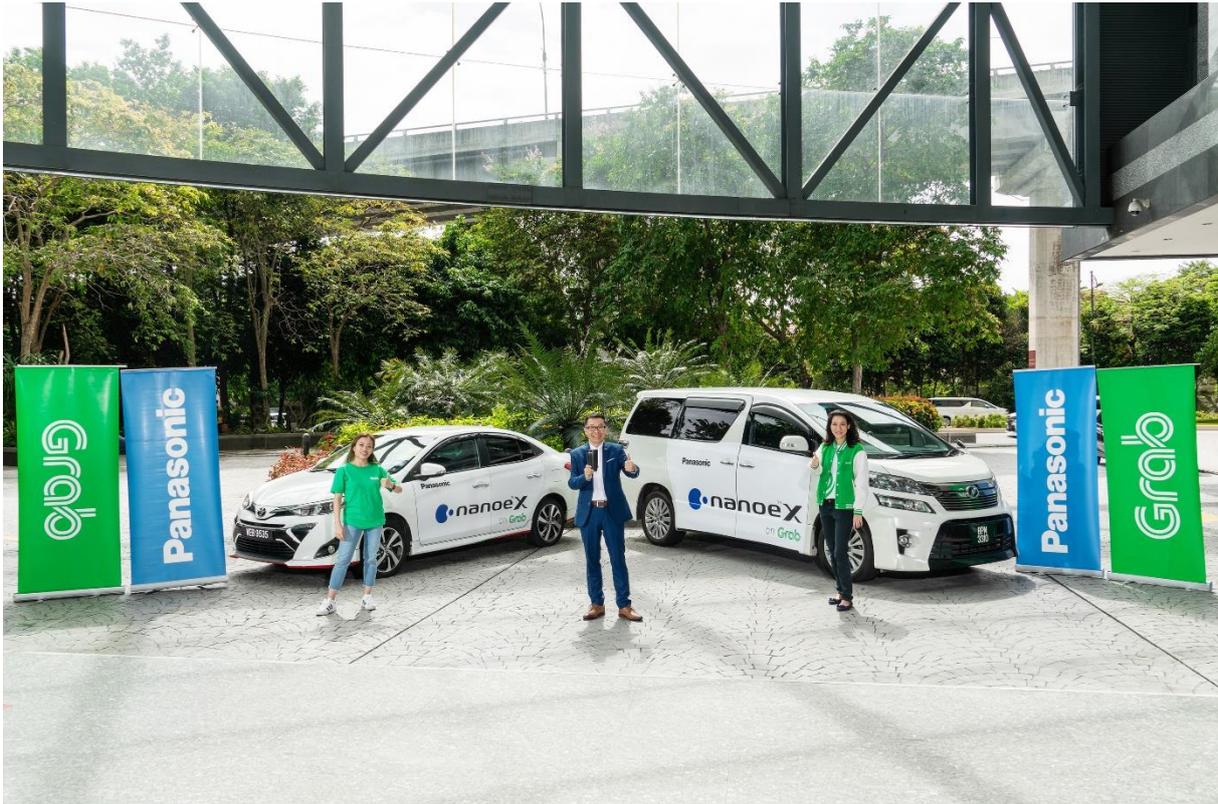


Jan 14, 2021

Panasonic's nanoe™ X Air Quality Solution Creates Comfortable Travel Space for Grabs' Premium Vehicles

5,500 GrabCar Premium vehicles will be equipped with nanoe™ X generators



GrabCar Premium vehicle equipped with nanoe™ X generator

Kuala Lumpur, Malaysia – [Panasonic Corporation](#) today announced, in collaboration with Grab Holdings Inc. (Grab), the leading everyday superapp in Southeast Asia, to further raise GrabCar Premium standards by providing cleaner and more comfortable travelling experience for GrabCar Premium passengers using nanoe™ X. The initiative will see 5,500 GrabCar Premium vehicles in five cities across four countries (Kuala Lumpur (Malaysia), Singapore, Ho Chi Minh City and Hanoi (Vietnam), and Jakarta (Indonesia)) be equipped with nanoe™ X generators, which will be available from the middle of January 2021.

The partnership will also see both Panasonic and Grab collaborating to promote the importance of quality air by leveraging GrabAds unique online and offline solutions. The campaign includes the in-car product placement as well as a feature on Grab's app homepage where it will be available to over 214 million smartphones in Southeast Asia. GrabAds is increasingly becoming the advertising platform of choice for

brands in Southeast Asia.

In recent years, interest in air quality has been increasing worldwide. Under the slogan of "QUALITY AIR FOR LIFE" mainly in Southeast Asia, Panasonic is providing air quality solutions that control temperature, humidity, ventilation, and airflow to deliver high-quality air environments tailored to homes, stores, offices, etc. At the core of these solutions is Panasonic's proprietary nanoe™*1 clean technology.

nanoe™ is a nanosized particulate ion produced by applying a high voltage to water in the air and contains hydroxyl radicals (highly reactive components) that easily act on various substances. The production of these hydroxyl radicals has been increased tenfold compared to conventional products, and nanoe™ X is used in home appliances such as air purifiers, air conditioners, washing machines, and refrigerators, as well as in automobiles, trains, and commercial air conditioning equipment because of its various effects such as deodorisation*2, suppression of bacteria*3 and allergens*4.



Image of using the nanoe™X Generator F-GPT01AKM

The nanoe™ X generator, which will be installed in GrabCar Premium vehicles, is powered by a USB port and is compact enough to fit in a car cup holder, making it easy to generate nanoe™X to clean the air inside the car.

Panasonic will continue to pursue the realisation of "QUALITY AIR FOR LIFE" in various areas of our lives and society, including home appliances, automotive, and housing-related fields, to deliver a healthy lifestyle.

- **Location:**
Kuala Lumpur in Malaysia, Singapore, Ho Chi Minh City and Hanoi in Vietnam and Jakarta, Indonesia
- **Period:**
From mid-January to mid-March 2021
- **Target:**
5,500 GrabCar Premium vehicles in operation in the five cities in four countries mentioned above.

Related links:

QUALITY AIR FOR LIFE <https://www.panasonic.com/global/consumer/clean/ja/qafl.html>

Notes:

1 nanoe™ has a lifespan about six times longer than that of ordinary ions, so it spreads over a wider area. Its water content is approximately 1,000 times** greater than that of air ions (by volume), and it is a weakly acidic ion that is gentle to skin and hair.

nanoe™, and the nanoe™ mark are trademarks of Panasonic Corporation. (About nanoe™: <http://panasonic.jp/nanoe/>)

* Comparison with air ions. Lifespan of common air ions: tens of seconds to 100 seconds. Life of nanoe™: approx. 600 seconds. (According to our research)

** Comparison between common air ions (negative ions) (Representative particle size:1.3nm) and nanoe™ (Representative particle size:13nm). (Panasonic internal research)

*2 The following effects have been verified after about 12 minutes in a space of approximately 23 m³. However, this is not the result of measurement in actual use space.

- Testing organisation: Product Analysis Center, Panasonic Corporation ●Test method: verified using the six-level odour intensity scale method in an approximately 23 m³ sized test room. ●Deodorising method: nanoe™ released
- Test substance: adhered cigarette smoke odour ●Test result: odour intensity reduced by 2.4 in 12 minutes (4AA33-160615-N04)

*3 The following effects have been verified after about 4 hours in a space of approximately 25 m³ (However, the results are not measured in actual use space)

- Testing organisation: Kitasato Research Center for Environmental Science ●Test method: the number of bacteria is measured after direct exposure in an approximately 25 m³ sized airtight test room ●Inhibition method: nanoe™ released
- Test substance: airborne bacteria ●Types of bacteria tested: 1 type ●Test result: 99% or more inhibition in 4 hours (24_0301_1)

*4 The following effects have been verified after about 24 hours in a space of approximately 23 m³. (However, this is not the result of measurement in an actual use space.

- Testing organisation: Panasonic Product Analysis Center ●Testing method: Verified using the electrophoresis method in an approximately 23m³ sized test room ●Inhibition method: nanoe™ released ● Test substance: allergens ● Test result: 99% or more inhibition in 24 hours (4AA33-151001-F01)

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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 100th 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. To learn more about Panasonic: <https://www.panasonic.com/global>.

About Panasonic Malaysia Sdn Bhd

Panasonic Malaysia Sdn Bhd is a sales, service and marketing company for the Panasonic brand of electrical and electronic products ranging from audio visuals, home appliances, air conditioners, indoor air quality, solar business, digital & video cameras, professional broadcasting equipment, system solutions, telecommunications, health & beauty care, batteries and lightings. All Panasonic products are available through our authorised dealers nationwide. For more information on Panasonic brand and products, visit our website at www.panasonic.com.my or call our Customer Care Centre at 03-7953 7600.