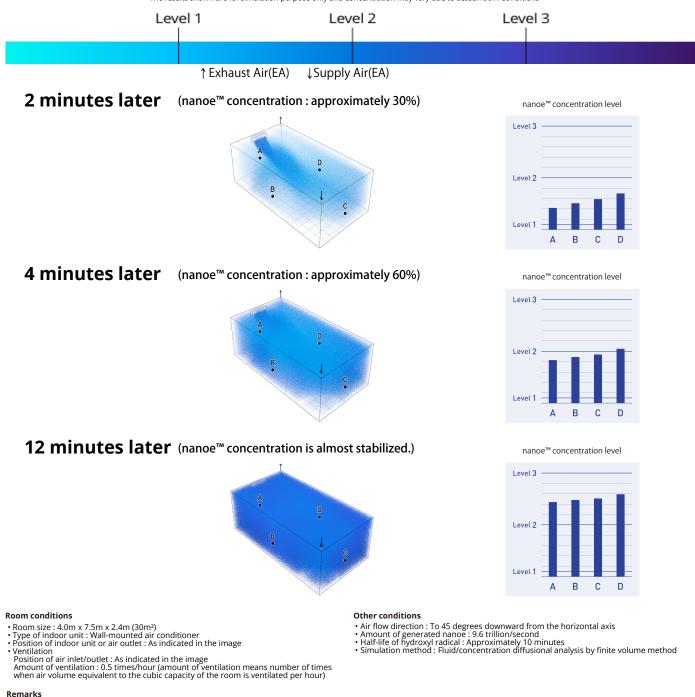


nanoe[™] distribution and concentration level over time

There are 7 key benefits provided by nanoe[™] which commence when concentration reaches Level 1.

The concentration level affects the speed at which the benefits occur. Concentration level 2 is 10 times the concentration of level 1, and concentration level 3 is 20 times the concentration of level 1.

*The results shown are for simulation purpose only and concentration may vary due to actual room conditions



- The concentration level of nance[™] is stabilized after a certain period of time time. This result shows the variability of nance[™] diffusion at the 3 time points until when nance[™] concentration is stabilized. The diffusion of nance[™] is not effected by the operation mode (heating, cooling, nance[™], etc.) of the air conditioner.
- Simulation was conducted as an independent space by dividing one home into individual room.
 nanoe™ particles are extremely tiny in nano-meter size. They cannot be seen so the concentration image is solely for illustrative purposes.

Panasonic





Concentration level of nanoe[™] X is the key for effectiveness

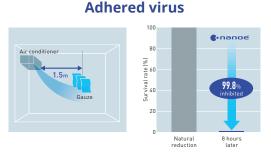
7 Effects nanoe™ X						
Deodorises	Inhibits 5 types of pollutants					Moisturises
Gdours	Bacteria &viruses	Mould	Allergens	Pollen	Hazardous substances	**** Skin and hair

Known as nature's detergent, hydroxyl radicals (also known as OH radicals) are natural reactive molecules looking to react with other elements such as hydrogen. This reaction enables hydroxyl radicals to inhibit the growth of pollutants. Panasonic's nanoe[™] X technology brings these effects to purify surfaces and indoor environments.

The concentration level of nanoe[™] X is the key to effectiveness. The higher the concentration, the more hydroxyl radicals are in the space, and the quicker the effect can be realised.

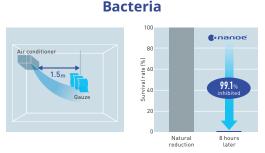
This will enable you to enjoy a pleasant and comfortable living space.

LEVEL1 **Effects expected at concentration Level1**



- (1) Testing organisation: Japan Food Research Laboratories (2) Test subject: Adhered bacteriophage Φ x 174
- (3) Test volume: Approx. 25 m³ laboratory (3.3 x 3.5 x 2.2m)
 (4) Test result: Inhibited 99.8% in 8 hours

(5) Report No.: 13001265005-01

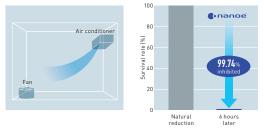


(1) Testing organisation: Japan Food Research Laboratories

(2) Test subject: Adhered staphylococcus aureus (3) Test volume: Approx. 23 m³ laboratory (3.6 x 2.7 x 2.4m)

(4) Test result: Inhibited 99.1% in 8 hours (5) Report No.: 13044083003-01

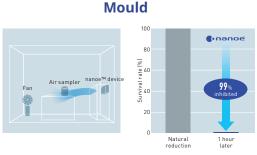
Airborne virus



(1) Testing organisation: Kitasato Research Center for Environmental Science

(2) Test subject: Airborne bacteriophage 174
(3) Test volume: Approx. 25 m³ laboratory (3.5 x 3.3 x 2.2m)
(4) Test result: Inhibited 99.74% in 6 hours

(5) Report No.: 24_0300_1



(1) Testing organisation: Japan Food Research Laboratories

- (2) Test subject: Airborne cladsporium (3) Test volume: Approx. 23 m³ laboratory (3.6 x 2.7 x 2.4m) (4) Test result: Inhibited 99% in 1 hour

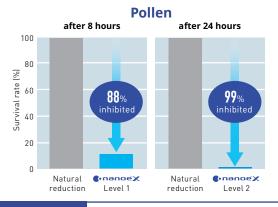
(5) Report No.: 205061541-001

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nanoeX

Effects expected at concentration Level2 LEVEL2

Level 2 is 10 times more concentrated than Level 1, and compared to Level 1 takes less time to realise the effects.



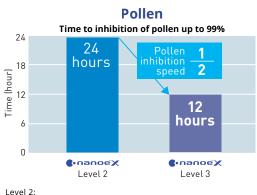
After 8 hours

- (1) Testing organisation: Panasonic Product Analysis Center
- (2) Test subject: Adhered cedar pollen allergens
 (3) Test volume: Approx. 24 m³ laboratory (3.64 x 2.73 x 2.4m)
- (4) Test result: Inhibited over 88% in 8 hours (5) Report No.: BAA33-130402-F0
- After 24 hours

- (1) Testing organisation: Panasonic Product Analysis Center
 (2) Test subject: Adhered cedar pollen allergens
 (3) Test volume: Approx. 24 m³ laboratory (3.64 x 2.73 x 2.4m)
 (4) Test Result: Inhibition of 99% or more in 24 hours
- (5) Report No.: 4AA33-151001-F01

LEVEL3 Effects expected at concentration Level3

Level 3 is 20 times more concentrated than Level 1, and compared to Level 2 takes less time to realise the effects.



- (1) Testing organisation: Panasonic Product Analysis Center
- (2) Test subject: Adhered cedar pollen allergens
 (3) Test volume: Approx. 24 m³ laboratory (3.64 x 2.73 x 2.4m)
- (4) Test Result: Inhibition of 99% or more in 24 hours (5) Report No.: 4AA33-151001-F01

Level 3

- (1) Testing organisation: Panasonic Product Analysis Center
 (2) Test subject: Adhered cedar pollen allergens
 (3) Test volume: Approx. 24 m³ laboratory (3.64 x 2.73 x 2.4m)
 (4) Test Result: Inhibition of 99% or more in 12 hours confirmed
- (5) Report No.: L19YA009

Age-related body odour Time to reduce odour intensity by 1.7 levels 120 100 ر ق 80 م 60 Time 40 20 0 ۥnanoex ۥnanoex Level 2 Level 3

Level 2:

- (1) Testing organisation: Panasonic Product Analysis Center
- (2) Target odour: Surface-adhered age-related body odour (3) Test volume: approximately 23 m³-sized test chamber
- (4) Test result: Odour intensity reduced by 1.3 levels in 2 hours (5) Report No.: Y18HM047-1

Level 3

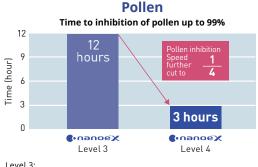
- (1) Testing organisation: Panasonic Product Analysis Center (2) Target odour: Surface-adhered age-related body odour
- (3) Test volume: approximately 23 m³-sized test chamber (4) Test result: Odour intensity reduced by 1.7 levels in one hour

Sweat odour

(5) Report No.: Y18HM059

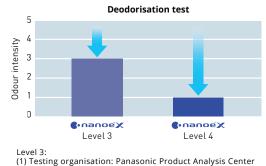
LEVEL4 Effects expected at concentration Level4

Level 4 is 100 times more concentrated than Level 1, and compared to Level 3 takes less time to realise the effects



- (1) Testing organisation: Panasonic Product Analysis Center
- (2) Test subject: Adhered cedar pollen allergens
 (3) Test volume: Approx. 24 m³ laboratory (3.64 x 2.73 x 2.4m)
- (4) Test Result: Inhibition of 99% or more in 12 hours confirmed (5) Report No.: L19YA009

- (1) Testing organisation: Panasonic Product Analysis Center (2) Test subject: Adhered cedar pollen allergens
- (3) Test volume: Approx. 24 m³ laboratory (3.64 x 2.73 x 2.4m) (4) Test Result: Inhibition of 99% or more in 3 hours
- (5) Report No.: H21YA017-1



- (2) Test subject: Adhered sweat odour (hexanoic acid)
 (3) Test volume: approx. 23 m³
- (4) Test result: Odour intensity was reduced to 1.0 in 2 hours (5) Report No.: R21HM004-0
- Level 4:
- (1) Testing organisation: Panasonic Product Analysis Center (2) Test subject: Adhered sweat odour (hexanoic acid)

- (3) Test volume: approx. 23 m³
 (4) Test result: Odour intensity was reduced to 3.1 in 2 hours (5) Report No.: L19YK032-11
- 3/3 © Panasonic Corporation

Level 4: