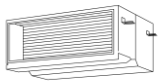
Panasonic

nanoeX

Concentration Simulation Results

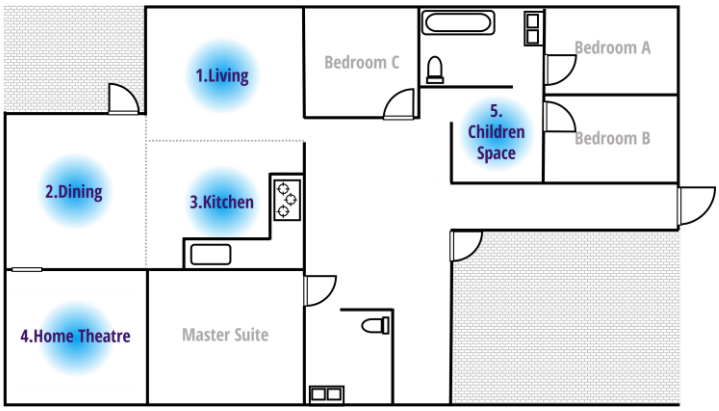
Simulation Conditions

Type of indoor unit	**House size**	**300m²**
	**House type**	**1-story**
	Room height	**2.4 m**
	Position of indoor unit	**Center of room**
	Type of nanoe™ Generator	**Mark 2**
High static ducted		

nanoe™ X concentration simulated image and concentration value by points

This result shows the variability of nanoe™ diffusion at the time points where nanoe™ concentration is stabilized.
Available benefits of nanoe™ at each level are detailed below the simulation results.
The higher the concentration level rises, it is expected that the nanoe™ effect is enhanced.
*The result is based on the conditions for the simulation and it may differ from the concentration measured in an actual room.

DAYTIME



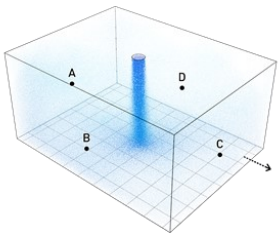
Rooms supposed to be used for daytime

1. Living
2. Dining
3. Kitchen
4. Home theatre
5. Children space

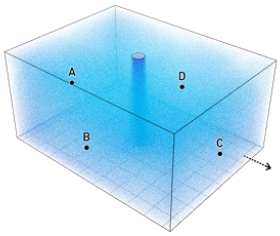
--> Returned Air (RA)

1. Living

2 minutes later



6 minutes later



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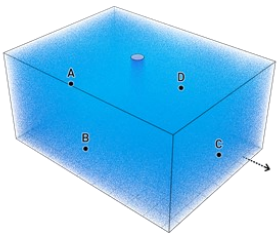
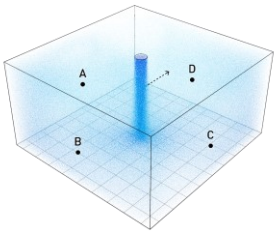
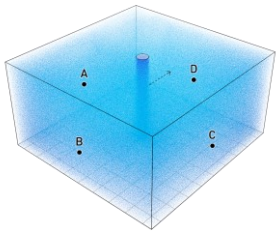


2. Dining

3 minutes later



7 minutes later



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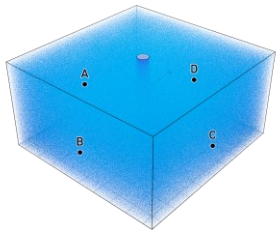
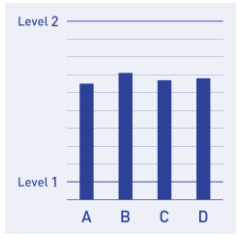
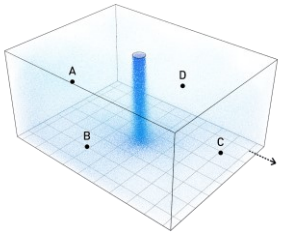




3. Kitchen

2 minutes later



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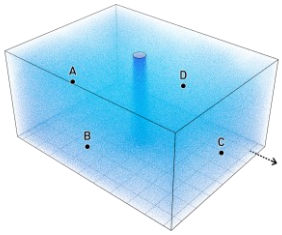

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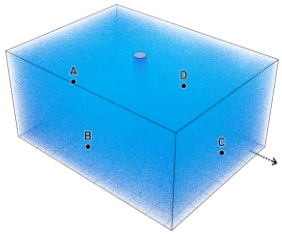
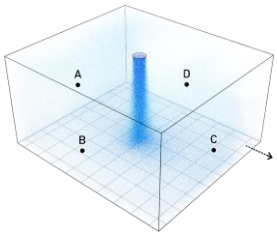
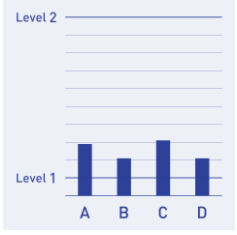


4. Home Theatre

2 minutes later





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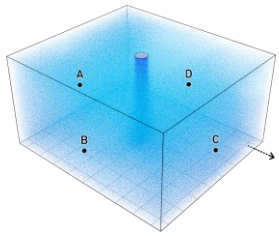
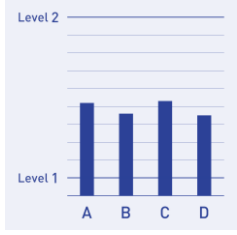
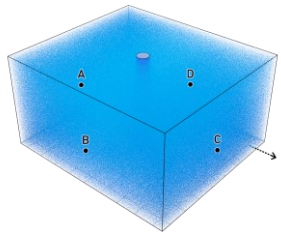


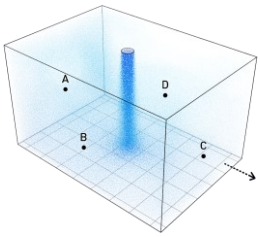


16 minutes later



5. Children Space

2 minutes later



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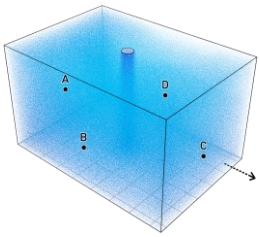

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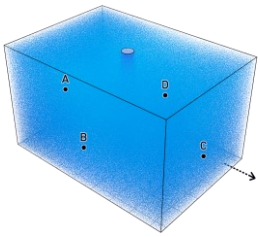
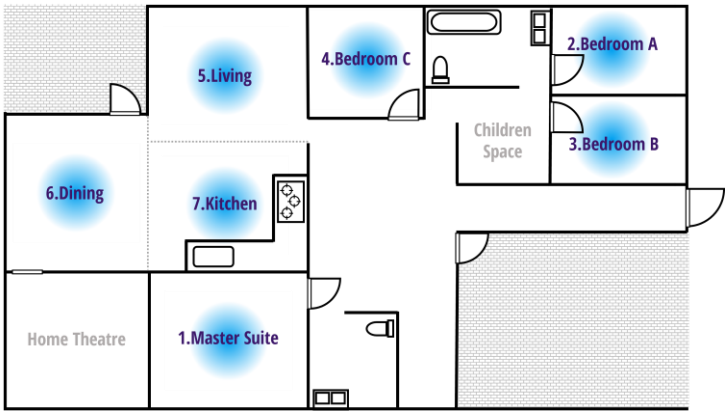


NIGHTTIME



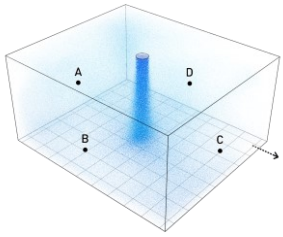
Rooms supposed to be used for nighttime

1. Master Suite
2. Bedroom A
3. Bedroom B
4. Bedroom C
5. Living
6. Dining
7. Kitchen

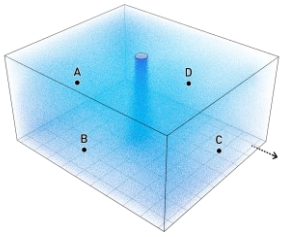
--> Returned Air (RA)

1. Master Suite

3 minutes later



7 minutes later



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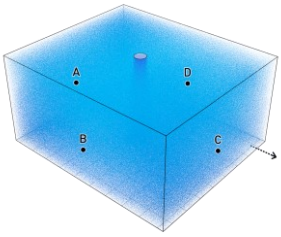
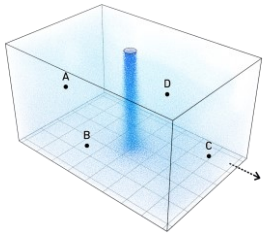
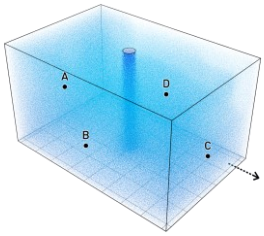


2. Bedroom A

3 minutes later



7 minutes later



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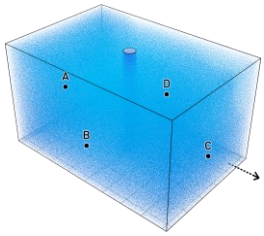
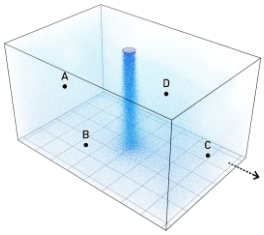


3. Bedroom B

3 minutes later



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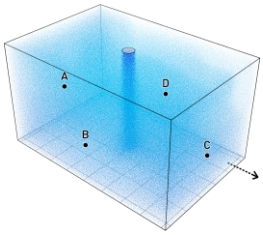

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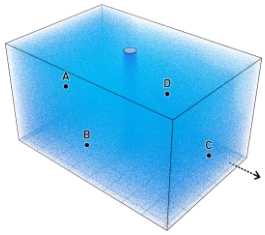
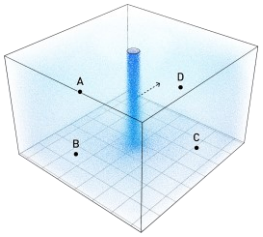
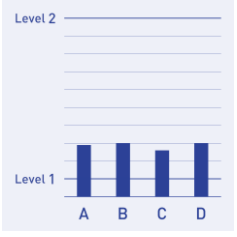


4. Bedroom C

3 minutes later





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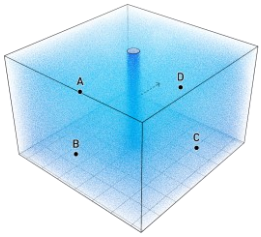

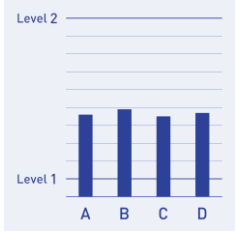

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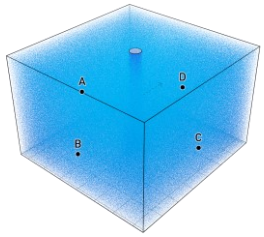
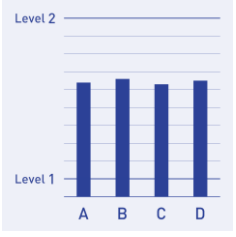
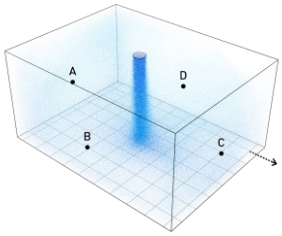


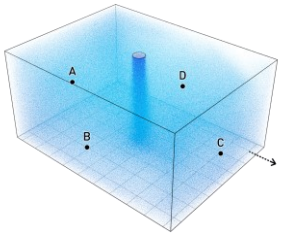


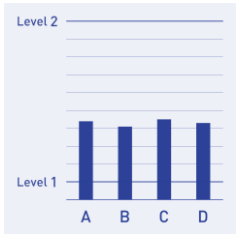
5. Living

3 minutes later



7 minutes later





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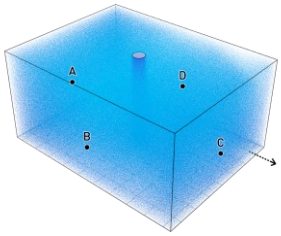
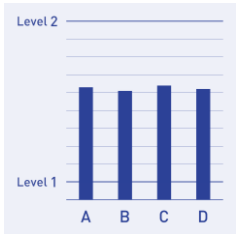
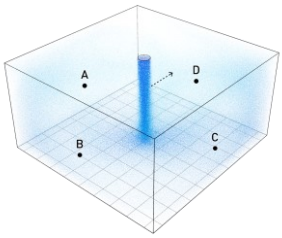




6. Dining

3 minutes later



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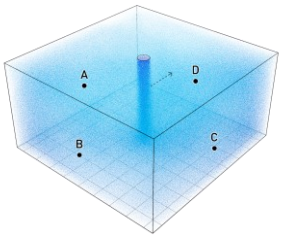

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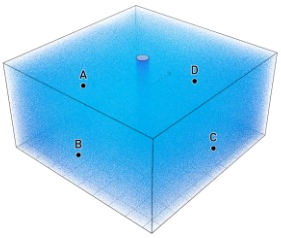
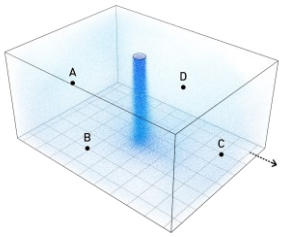


7. Kitchen

3 minutes later



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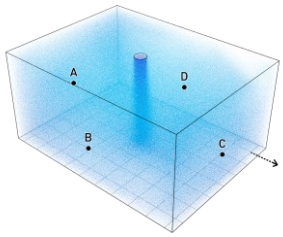

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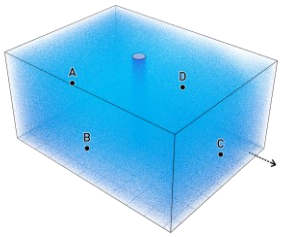
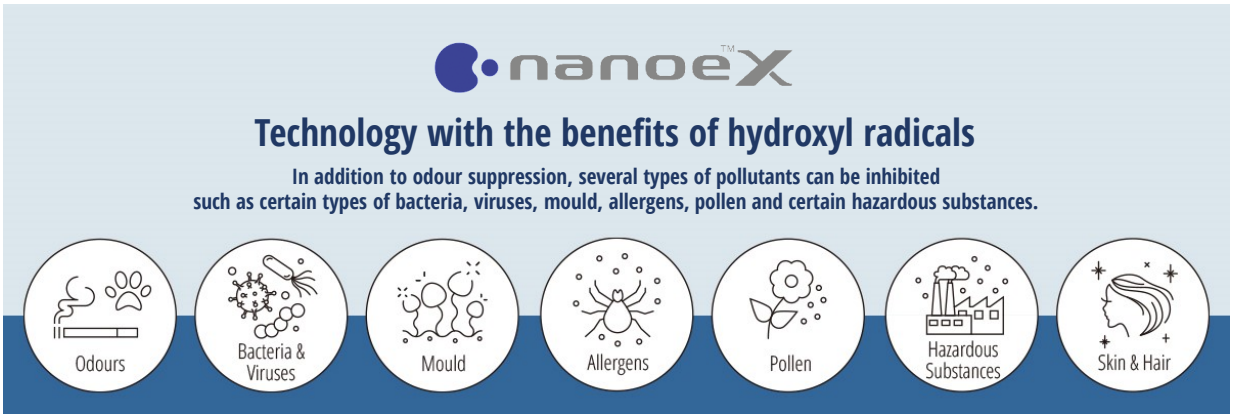
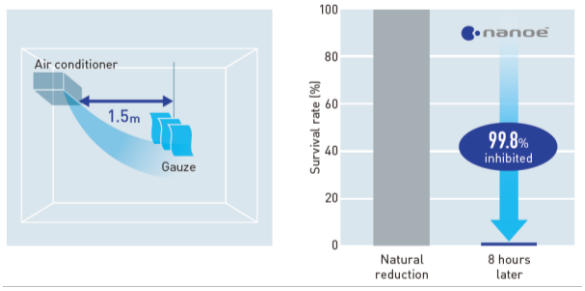




The standard concentration of Level 1

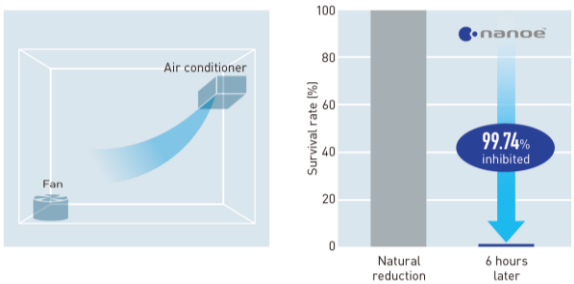
= the concentration at which the results of airborne and adhered certain virus/bacteria and mould inhibition in actual space are obtained

Adhered virus



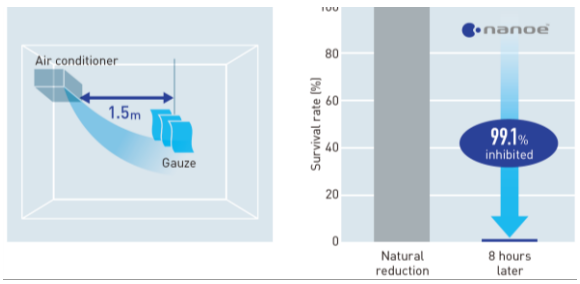
(1)Testing organisation: Japan Food Research Laboratories
(2)Test subject: Adhered bacteriophage Φ x 174
(3)Test volume: Approx. 25 m³ laboratory (3.3 x 3.5 x 2.2m)
(4)Test result: Inhibited 99.8% in 8 hours
(5)Report No.: 13001265005-01

Airborne virus



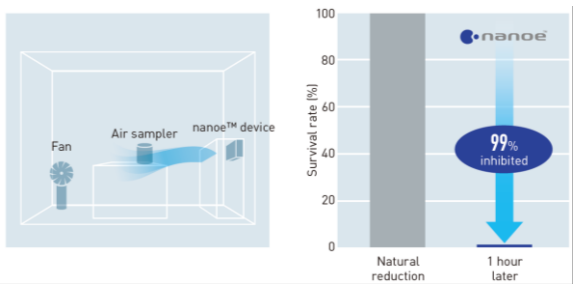
(1)Testing organisation: Kitasato Research Center for Environmental Science
(2)Test subject: Airborne bacteriophage 174
(3)Test volume: Approx. 25 m³ laboratory (3.5 x 3.3 x 2.2m)
(4)Test result: Inhibited 99.74% in 6 hours
(5)Report No.: 24_0300_1

Adhered bacteria

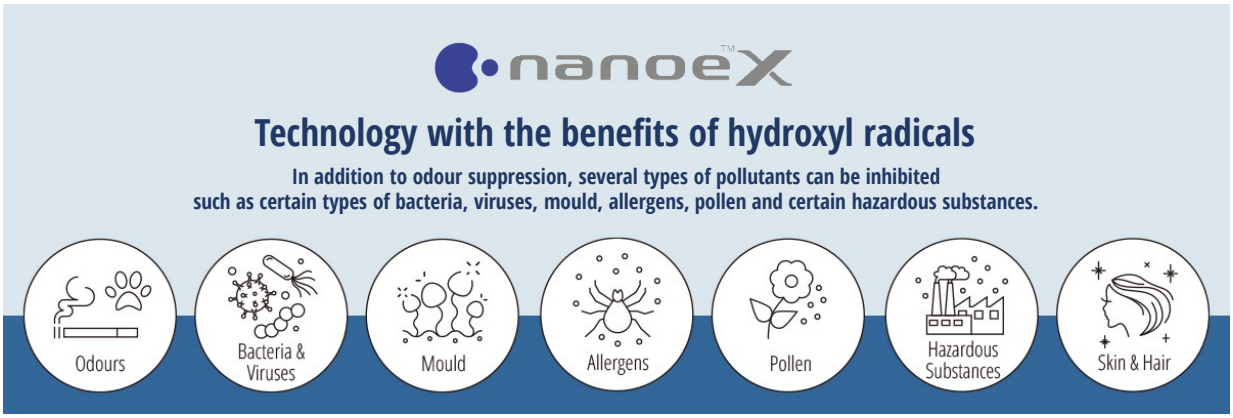


(1)Testing organisation: Japan Food Research Laboratories
(2)Test subject: Adhered staphylococcus aureus
(3)Test volume: Approx. 23 m³ laboratory (3.6 x 2.7 x 2.4m)
(4)Test result: Inhibited 99.1% in 8 hours
(5)Report No.: 13044083003-01

Airborne mould



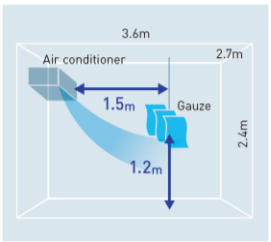
(1)Testing organisation: Japan Food Research Laboratories
(2)Test subject: Airborne cladsporium
(3)Test volume: Approx. 23 m³ laboratory (3.6x2.7x2.4m)
(4)Test result: Inhibited 99% in 1 hour
(5)Report No.: 205061541-001

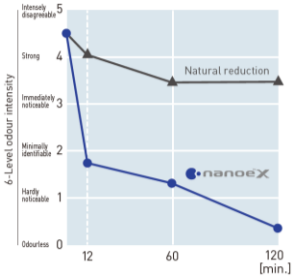


The standard concentration of Level 2

= the concentration at which the results of deodrisation, and hazardous substances inhibition in actual space are obtained

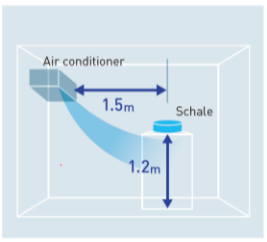
Adhered cigarette smoke odour

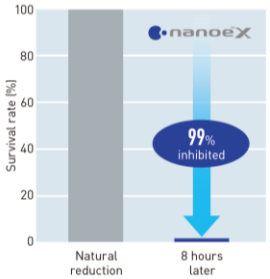




(1)Testing organisation: Panasonic Product Analysis Center
(2)Test subject: Adhered cigarette smoke odour
(3)Test volume: Approx. 24 m³ laboratory (3.64 x 2.73 x 2.4m)
(4)Test result: Odour intensity reduced 2.4 levels in 0.2 hours
(5)Report No.: 4AA33-160615-N04

Adhered hazardous substances



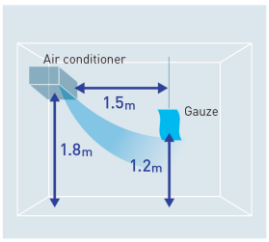


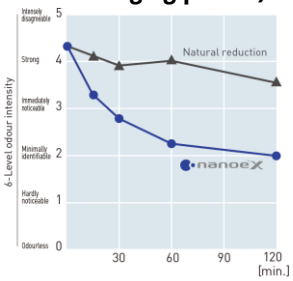
(1)Testing organisation: Panasonic Product Analysis Center
(2)Test subject: Adhered aromatic carboxylic acid (benzoic acid)
(3)Test volume: Approx. 23 m³ laboratory (3.64 xx2.73 x 2.4m)
(4)Test result: Inhibited 99% in 8 hours
(5)Report No.: Y17NF096

The standard concentration of Level 3

= the concentration at which the results of deodrisation and pollen inhibition in actual space are obtained

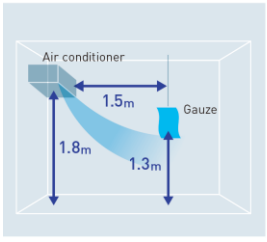
Adhered nonenal (body odour of an aging person)

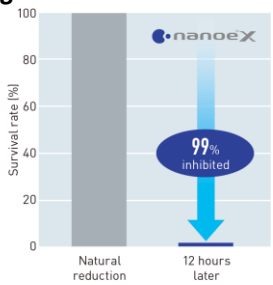




(1)Testing organisation: Panasonic Product Analysis Center
(2)Test subject: Adhered nonenal (Body odour of an aging person)
(3)Test volume: Approx. 23 m³ laboratory
(4)Test result: Odour intensity reduced by 1.7 levels in 1 hour
(5)Report No.: Y18HM059

Adhered cedar pollen allergens





(1)Testing organisation: Panasonic Product Analysis Center
(2)Test subject: Adhered cedar pollen allergens
(3)Test volume: Approx. 23 m³ laboratory
(4)Test result: Inhibited over 99% in 12 hours
(5)Report No.: L19YA009