Panasonic

RESIDENTIAL AIR CONDITIONERS 2021

nanoe™X

Anti-COVID-19 Technology
A.C.T. Now

JAPAN QUALITY
UNCOMPROMISING PANASONIC QUALITY CONTROL WORLDWIDE

Panasonic

24-hour nanoe™ X Protection Against COVID-19

Attacking with technology

24-hour nanoe™ X Protection

Secure 24-hour nanoe™ X protection for the whole family.

nanoe™ X

Test results: novel coronavirus activity inhibited

Test of an air conditioner with nanoe™ X

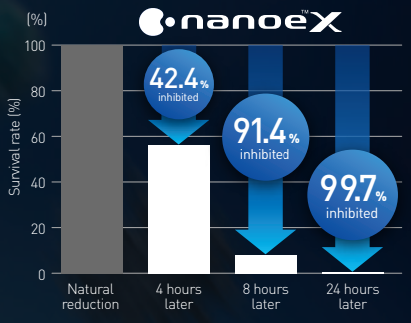
Overview

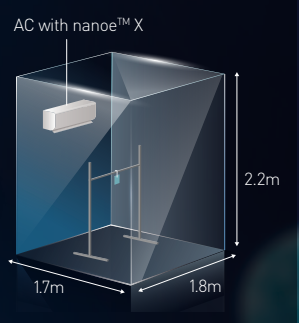
The objective of this test was to determine if nanoe™ X inhibits the activity of the SARS-CoV-2 virus. Gauze saturated with SARS-CoV-2 virus solution was exposed to an air conditioner with nanoe™ X from a distance of 0.7 m in a 6.7 m3 room for 8 hours. Over 91% of the activity of the SARS-CoV-2 virus was inhibited.

Details

(1) Testing organisation: Texcell (France). (2) Test subject: novel coronavirus (SARS-CoV-2). (3)Test volume: 6.7 m3 room (1.7 m x 1.8 m x 2.2 m). (4) Exposure time: 8 hours.

Test results: SARS-CoV-2





Notes: (1) The virus infectious titer was measured and used to calculate the inhibition rate. (2) This verification was designed to generate basic research data on the effects of nanoe™ X on the novel coronavirus in laboratory conditions. Actual effects will vary depending on the environment and usage of the product.

Notes: Photograph is for illustrative purposes.

A Better Life, A Better World

QUALITY AIR FOR LIFE

Air Purification

Why do you need nanoe™ Technology?

PROTECTS YOUR FAMILY FROM HARMFUL POLLUTANTS

nanoeX inhibits 5 types of pollutants - bacteria and viruses, allergens, hazardous substances, moulds, and pollen - keeping your loved ones away from allergies or diseases.

REDUCES ODOUR TO KEEP YOUR HOME FRESH

nanoeX deodorises and reduces strong, adhesive odours by deeply penetrating into fabrics, resulting to lasting freshness in your living space.

MOISTURISES YOUR SKIN AND HAIR

nanoeX water particles help achieve proper moisture balance, resulting in smooth, hydrated skin and hair.

PURIFIES THE AIR, AND REMOVES DUST PARTICLES

nanoe-G purifies the air by releasing negative ions that capture dust particles (PM 2.5). These particles are carried back and trapped at the filter.

How does it keep your home clean all day and night?

PURIFIES WITH COOLING ON/OFF

nanoe™ Technology actively purifies your air and inhibits pollutants all day long. Thus, ensuring your loved ones enjoy better indoor air quality at all times.

PURIFY WITH COOLING OFF LOW ENERGY CONSUMPTION

Only at 25W/Hour*

Low energy consumption with fan mode 25W per hour for a single unit.

nanoe Purifies Home 24 hrs

* Energy consumption may vary depending on models.

To learn more

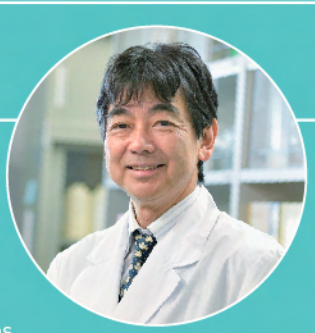
visit our website www.panasonic.com/ph

For total air purification, a filter is not enough. You need a life-changing TECHNOLOGY.

Professor
Masafumi Mukamoto

Osaka Prefecture University
Veterinary Infectious Disease Studies

Various types of moulds enter house along with people and air. Even if preventive action is taken in our everyday lives, it is often very difficult to inhibit the growth of mould, especially in humid environments. With nanoe™ X, we have experimental results* that show we can inhibit the growth of the types of mould commonly found in various places in the house. As nanoe™ X is also capable of inhibiting invisible bacteria and viruses that exist in our living enviroment, we can expect it will deliver a clean environment. I recommend that equipment incorporation nanoe™ X technology be placed in buildings where cleanliness is required, such as in schools, childcare facilities and medical institutions.**



Professor
Masahiro Sakaguchi

Azabu University School of Veterinary
Medicine Department of Veterinary Medicine

We have experimental results that show nanoe™ X is capable of inhibiting allergens, such as pollen and dust mites. It is important to take precautions against the allergens that we inadvertently inhale in our daily lives. As nanoe™ X is effective in inhibiting invisible allergens, we can expect it will create a cleaner environment. As the safety of nanoe™ X has also been verified, nanoe™ X gives peace of mind to families with small children.**

*Experimental results show that nanoe™ X is effective in inhibiting the growth of the following types of mould commonly found in homes: Cladosporium, Aspergillus, Penicillium, Alternaria, Fusarium, Eurotium, Mucor, and Stachybotrys.
** The above indications and statements are made in reference to available information.

www.panasonic.com/ph

ELITE INVERTER SKY SERIES (VU Model)

- nanoe™ X
- SKYWING Unique Top Flap Design
- iAutoX Fast Cooling
- Inverter
- Xtra Quiet 18dB (CS-VU9UKQ)
- R32 Refrigerant

SPECIFICATIONS

MODEL NO. ( ): Outdoor Unit			CS-VU9UKQ [CU-VU9UKQ]	CS-VU12UKQ [CU-VU12UKQ]	CS-VU18UKQ [CU-VU18UKQ]
Technical Data		Unit			
Cooling Capacity		HP	1.0	1.5	2.0
	(min-max)	kJ/h	9,000 (3,020-12,960)	12,240 (3,670-16,200)	18,720 (3,960-20,880)
Power Input (min-max)		W	490 (215-900)	820 (245-1,200)	1,450 (290-1,670)
EER (min-max)		kJ/hW	18.37 (14.05-14.40)	14.93 (14.98-13.50)	12.91 (13.66-12.50)
Noise Level	Indoor (Lo/Q-Lo)	dB (A)	26/18	28/19	36/33
	Outdoor (Hi)	dB (A)	47	48	49
Power Source		V / Phase Hz	230 V, 1Ø Phase - 60 Hz		
Refrigerant			R32	R32	R32
Physical Data					
Indoor	Unit Dimension(WxHxD)	mm	950 x 306 x 280	950 x 306 x 280	950 x 306 x 280
	Packaging Dimension(WxHxD)	mm	1,040 x 330 x 390	1,040 x 330 x 390	1,040 x 330 x 390
	Net Weight	kg	12	12	12
	Gross Weight	kg	15	15	15
Outdoor	Unit Dimension(WxHxD)	mm	780 x 542 x 289	780 x 542 x 289	824 x 619 x 299
	Packaging Dimension(WxHxD)	mm	890 x 600 x 400	890 x 600 x 400	960 x 680 x 420
	Net Weight	kg	30	30	33
	Gross Weight	kg	31	31	36
Refrigerant Pipe Diameter	Liquid Side	mm	ø 6.35	ø 6.35	ø 6.35
	Gas Side	mm	ø 9.52	ø 12.70	ø 12.70
Pipe Extension	Max. Pipe Length	m	20	20	30
	Max. Elevation Length	m	15	15	20

PREMIUMUM INVERTER AERO SERIES (XU Model)

- nanoe™ X
- AEROWINGS Multi-directional Flaps
- iAutoX Fast Cooling
- Inverter
- R32 Refrigerant

SPECIFICATIONS

MODEL NO. ( ): Outdoor Unit			CS-XU9VKQ [CU-XU9VKQ]	CS-XU12VKQ [CU-XU12VKQ]	CS-XU18VKQ [CU-XU18VKQ]	CS-XU24VKQ [CU-XU24VKQ]	CS-XU30VKQ [CU-XU30VKQ]
Technical Data		Unit					
Cooling Capacity		HP	1.0	1.5	2.0	2.5	3.0
	(min-max)	kJ/h	9,180 (3,020-11,520)	11,880 (3,670-15,120)	18,720 (3,960-21,600)	21,600 (4,030-25,560)	29,520 (4,140-36,000)
Power Input (min-max)		W	640 (225-880)	840 (260-1,180)	1,260 (290-1,680)	1,550 (320-2,000)	2,300 (350-3,200)
EER (min-max)		kJ/hW	14.34 (13.42-13.09)	14.14 (14.12-12.81)	14.86 (13.66-12.86)	13.94 (12.59-12.78)	12.83 (11.83-11.25)
Noise Level	Indoor (Lo/Q-Lo)	dB (A)	26	28	36	37	37
	Outdoor (Hi)	dB (A)	47	48	50	50	53
Power Source		V / Phase Hz	230 V, 1Ø Phase - 60 Hz				
Refrigerant			R32	R32	R32	R32	R32
Physical Data							
Indoor	Unit Dimension(WxHxD)	mm	919 x 295 x 199	919 x 295 x 199	1,120 x 302 x 241	1,120 x 302 x 241	1,120 x 302 x 241
	Packaging Dimension(WxHxD)	mm	960 x 240 x 360	960 x 240 x 360	1,190 x 290 x 380	1,190 x 290 x 380	1,190 x 290 x 380
	Net Weight	kg	9	9	12	12	13
	Gross Weight	kg	10	10	14	14	15
Outdoor	Unit Dimension(WxHxD)	mm	650 x 511 x 230	780 x 542 x 289	824 x 619 x 299	875 x 695 x 320	875 x 795 x 320
	Packaging Dimension(WxHxD)	mm	780 x 580 x 350	890 x 600 x 400	960 x 680 x 420	1,050 x 760 x 460	1,050 x 900 x 490
	Net Weight	kg	20	27	32	41	55
	Gross Weight	kg	22	29	35	45	65
Refrigerant Pipe Diameter	Liquid Side	mm	ø 6.35	ø 6.35	ø 6.35	ø 6.35	ø 6.35
	Gas Side	mm	ø 9.52	ø 12.70	ø 12.70	ø 15.88	ø 15.88
Pipe Extension	Max. Pipe Length	m	20	20	30	30	30
	Max. Elevation Length	m	15	15	20	20	20

DELUXE INVERTER AERO SERIES (XPU Model)

- nanoe™ X
- AEROWINGS Multi-directional Flaps
- ECO-A.I.
- Inverter
- R32 Refrigerant
- Easy install and maintenance

SPECIFICATIONS

MODEL NO. ( ): Outdoor Unit			CS-XPU9WKQ [CU-XPU9WKQ]	CS-XPU12WKQ [CU-XPU12WKQ]	CS-XPU18WKQ [CU-XPU18WKQ]
Technical Data		Unit			
Cooling Capacity		HP	1.0	1.5	2.0
	(min-max)	kJ/h	9,140 (3,020-11,160)	11,020 (3,670-13,680)	18,000 (3,960-19,440)
Power Input (min-max)		W	670 (220-885)	750 (245-1,170)	1,550 (290-1,800)
EER (min-max)		kJ/hW	13.64 (13.73-12.61)	14.69 (14.98-11.69)	11.61 (13.66-10.80)
Noise Level	Indoor (Lo/Q-Lo)	dB (A)	26	28	34
	Outdoor (Hi)	dB (A)	47	48	51
Power Source		V / Phase Hz	230 V, 1Ø Phase - 60 Hz		
Refrigerant			R32	R32	R32
Physical Data					
Indoor	Unit Dimension(WxHxD)	mm	779 x 290 x 209	779 x 290 x 209	779 x 290 x 209
	Packaging Dimension(WxHxD)	mm	861 x 364 x 255	861 x 364 x 255	861 x 364 x 255
	Net Weight	kg	8	8	9
	Gross Weight	kg	9	9	10
Outdoor	Unit Dimension(WxHxD)	mm	650 x 511 x 230	780 x 542 x 289	824 x 619 x 299
	Packaging Dimension(WxHxD)	mm	784 x 578 x 347	891 x 603 x 396	958 x 680 x 416
	Net Weight	kg	18	23	29
	Gross Weight	kg	20	25	32
Refrigerant Pipe Diameter	Liquid Side	mm	ø 6.35	ø 6.35	ø 6.35
	Gas Side	mm	ø 9.52	ø 9.52	ø 12.70
Pipe Extension	Max. Pipe Length	m	20	20	30
	Max. Elevation Length	m	15	15	20

How does it SAVE ENERGY? Energy Saving

INVERTER

R32 REFRIGERANT

HIGHER Cooling Capacity

REDUCE Energy Costs

ECO Friendly

NEW ECO+A.I.

UP TO 20%* ENERGY SAVING

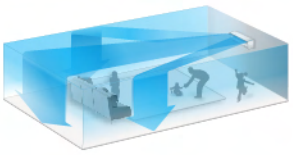
Intelligently Balances Energy Savings and Comfort

*Comparison of ECO Mode & normal mode by using 1.5HP Inverter Model.

How does it provide FAST COOLING COMFORT? Air Flow

SKYWING

Wider Cooling Coverage



AEROWINGS

Concentrated Airflow, Further

BIG FLAP

Long Airflow

i AUTO X

INTELLIGENT . DYNAMIC . COOL.

35%* COOLER FASTER

35% Faster Cooling

* Comparison of 1.5HP Premium Inverter with iAUTO-X mode and Standard non-Inverter model with cooling mode.

i AUTO

INTELLIGENT AUTO MODE

15%* FASTER COOLING

True Comfort Is Just a Touch Away

* Comparison of 1.5HP Non-Inverter model with iAUTO Mode and Cooling Mode

STANDARD INVERTER (PU Model)

NEW

(CS-PU9/12/18WKQ)

(CS-PU24VKQ)

- Inverter
- iAuto (CS-PU24VKQ)
- Big Flap
- R32 Refrigerant
- ECO+A.I. (CS-PU9/12/18WKQ)

SPECIFICATIONS

MODEL NO. ( ): Outdoor Unit			CS-PU9WKQ [CU-PU9WKQ]	CS-PU12WKQ [CU-PU12WKQ]	CS-PU18WKQ [CU-PU18WKQ]	CS-PU24VKQ [CU-PU24VKQ]
Technical Data		Unit				
Cooling Capacity		HP	1.0	1.5	2.0	2.5
	(min-max)	kJ/h	9,140 (3,020-11,160)	11,020 (3,670-13,680)	18,000 (3,960-19,440)	21,600 (4,030-24,120)
Power Input (min-max)		W	670 (220-885)	750 (245-1,170)	1,550 (290-1,800)	1,780 (320-2,000)
EER (min-max)		kJ/hW	13.64 (13.73-12.61)	14.69 (14.98-11.69)	11.61 (13.66-10.80)	12.13 (12.59-12.06)
Noise Level	Indoor (Lo/Q-Lo)	dB (A)	26	28	34	37
	Outdoor (Hi)	dB (A)	47	48	51	50
Power Source		V / Phase Hz	230 V, 1Ø Phase - 60 Hz			
Refrigerant			R32	R32	R32	R32
Physical Data						
Indoor	Unit Dimension(WxHxD)	mm	779 x 290 x 209	779 x 290 x 209	779 x 290 x 209	1,102 x 302 x 244
	Packaging Dimension(WxHxD)	mm	861 x 364 x 255	861 x 364 x 255	861 x 364 x 255	1172 x 378 x 290
	Net Weight	kg	8	8	9	12
	Gross Weight	kg	9	9	10	14
Outdoor	Unit Dimension(WxHxD)	mm	650 x 511 x 230	780 x 542 x 289	824 x 619 x 299	824 x 619 x 299
	Packaging Dimension(WxHxD)	mm	784 x 578 x 347	891 x 603 x 396	958 x 680 x 416	960 x 680 x 420
	Net Weight	kg	18	23	29	35
	Gross Weight	kg	20	25	32	38
Refrigerant Pipe Diameter	Liquid Side	mm	ø 6.35	ø 6.35	ø 6.35	ø 6.35
	Gas Side	mm	ø 9.52	ø 9.52	ø 12.70	ø 15.88
Pipe Extension	Max. Pipe Length	m	20	20	30	30
	Max. Elevation Length	m	15	15	20	20

STANDARD NON-INVERTER (PN Model)

- Big Flap
- iAuto
- R32 Refrigerant

SPECIFICATIONS

MODEL NO. ( ): Outdoor Unit			CS-PN9UKQ [CU-PN9UKQ]	CS-PN12UKQ [CU-PN12UKQ]	CS-PN18UKQ [CU-PN18UKQ]	CS-PN24UKQ [CU-PN24UKQ]
Technical Data		Unit				
Cooling Capacity		HP	1.0	1.5	2.0	2.5
	(min-max)	kJ/h	9,000	12,060	18,180	24,120
Power Input (min-max)		W	840	1,080	1,730	2,190
EER (min-max)		kJ/hW	10.7	11.2	10.5	11.0
Noise Level	Indoor (Lo/Q-Lo)	dB (A)	26	29	39	42
	Outdoor (Hi)	dB (A)	49	50	55	60
Power Source		V / Phase Hz	230 V, 1Ø Phase - 60 Hz			
Refrigerant			R32	R32	R32	R32
Physical Data						
Indoor	Unit Dimension(WxHxD)	mm	799 x 290 x 197	799 x 290 x 197	1,102 x 302 x 244	1,102 x 302 x 244
	Packaging Dimension(WxHxD)	mm	871 x 354 x 234	871 x 354 x 234	1,172 x 378 x 290	1,172 x 378 x 290
	Net Weight	kg	8	8	12	12
	Gross Weight	kg	9	9	14	14
Outdoor	Unit Dimension(WxHxD)	mm	650 x 511 x 230	780 x 542 x 289	824 x 619 x 299	875 x 695 x 320
	Packaging Dimension(WxHxD)	mm	780 x 580 x 350	890 x 600 x 400	960 x 680 x 420	1,050 x 760 x 460
	Net Weight	kg	21	29	35	54
	Gross Weight	kg	23	31	38	58
Refrigerant Pipe Diameter	Liquid Side	mm	ø 6.35	ø 6.35	ø 6.35	ø 6.35
	Gas Side	mm	ø 9.52	ø 12.70	ø 12.70	ø 15.88
Pipe Extension	Max. Pipe Length	m	20	20	30	30
	Max. Elevation Length	m	15	15	20	20

MULTI-SPLIT

nanoe-G AEROWINGS ECONAVI

CONNECT up to 3 INDOOR UNITS to a SINGLE OUTDOOR UNIT

ADVANTAGES OF MULTI-SPLIT AIR CONDITIONING SYSTEM:

Space-Saving | **Independent Operation Control** | **Flexible Installation**

SPECIFICATIONS: Indoor

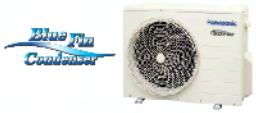
MODEL NO. ( ): Outdoor Unit		CS-S9TKZW 1 unit	CS-S12TKZW 1 unit	CS-S18TKZW 1 unit	CS-S24TKZW 1 unit
Technical Data	Unit				
HP		1.0	1.5	2.0	2.5
Power Source	V / Phase Hz	230 V, 1Ø Phase - 60 Hz			
Cooling Capacity	kJ/h	10,080	11,520	18,000	21,600
Fan Output	W	40	40	30	30
Sound Pressure (Lo)	dB (A)	29	32	38	39
Moisture Removal	L/h	1.6	1.8	2.7	3.3
Air Circulation	m^3/min	9.8	11.0	19.3	20.3
	ft^3/min	345	390	680	715
Refrigerant		R410A	R410A	R410A	R410A
Physical Data					
Dimensions (W x H x D)	mm	919 x 295 x 199	919 x 295 x 199	1,120 x 302 x 241	1,120 x 302 x 241
Net Weight Indoor	kg	9	9	12	12
Refrigerant Pipe Diameter Liquid Side	mm	ø 6.35	ø 6.35	ø 6.35	ø 6.35
Gas Side	mm	ø 9.52	ø 9.52	ø 9.52	ø 12.70

MULTI-SPLIT

MODELS CU-2S18PKZ

Indoor Units: Possible Combination Patterns (Must be within capacity range)

2 Rooms



Port A 2.8 or Either unit 3.2

Port B 2.8 or Either unit 3.2

- It is possible to have a combination of wall-mounted models (CS-S9, S12TKZW) for the (CU-2S18PKZ) Outdoor Unit Ports.
- A minimum of 2 indoor units must be connected.

CU-3S27KKZ — Indoor Units: Possible Combination Patterns (Must be within capacity range)

3 Rooms

Port A 2.8 or 3.2 or 4.0 or 5.0 or 6.0

Port B 2.8 or 3.2 or 4.0 or 5.0 or 6.0

Port C 2.8 or 3.2 or 4.0 or 5.0 or 6.0

- It is possible to have a combination of wall-mounted models (CS-S9, S12, S18, S24TKZW) for the (CU-3S27KKZ) Outdoor Unit Ports.
- A minimum of 2 indoor units must be connected.

SPECIFICATIONS: Outdoor

MODEL NO. ( ): Outdoor Unit		DUAL-SPLIT CU-2S18PKZ	TRIPLE-SPLIT CU-3S27KKZ
Technical Data	Unit		
Power Source	V / Phase Hz	230 V, 1Ø Phase - 60 Hz	
Cooling Capacity	kJ/h	18,000 (5,400-21,600)	27,000 (10,080~32,400)
Power Output	W	1,400 (250~1,750)	2,060 (520~2,830)
EER	dB (A)	12.86	13.11
System Current	L/h	6.4	9.6
Sound Pressure Level	m^3/min	49	49
Refrigerant	ft^3/min	R410A	R410A
Physical Data			
Dimensions (W x H x D)	mm	824 (+70) x 619 x 299	875 (+95) x 795 x 320
Net Weight		37	68
Pipe Extension Chargless Pipe Length	m	20	30
Pipe Length (max) 1 Room		20	25
Pipe Length (max) Total		30	60
Elevation Length (max)	m	10	15

FLOOR STANDING INVERTER

PB SERIES

POWERFUL AIR FLOW

SPECIFICATIONS

MODEL ( ): Outdoor Unit			S-38PB2Q6 [U-38PS2Q6]	S-43PB2Q6 [U-43PS2Q6]	S-48PB2Q6 [U-48PS2Q6]
Technical Data		Unit			
HP			4.5	5.0	6.0
Power Source		V / Phase Hz	230 V, 1Ø Phase - 60 Hz		
Cooling Capacity		kcal/h	40,320 (14,400-42,120)	44,280 (14,400-45,720)	51,480 (22,680-55,440)
Power Input		W	4,080	4,600	5,150
EER		kJ/hW	9.88	9.63	10.0
Current		A	19.7	22.2	24.9
Air Flow	Indoor (Hi)	m^3/min	32	32	32
Noise Level	Indoor (Lo)	dB (A)	44	44	44
	Outdoor	dB (A)	54	55	56
Refrigerant			R410A	R410A	R410A
Physical Data					
Dimensions (W x H x D)	Indoor	mm	600 x 1,880 x 350	600 x 1,880 x 350	600 x 1,880 x 350
	Outdoor	mm	980 x 996 x 370	980 x 996 x 370	980 x 996 x 370
Net Weight	Indoor	kg	51	51	51
	Outdoor	kg	72	74	81
Pipe Extension	Chargeless Length (max)	m	30	30	30
	Pipe Length (min-max)	m	7.5-50	7.5-50	7.5-50
	Elevation Difference	m	30	30	30

FLOOR STANDING INVERTER

E SERIES

SPECIFICATIONS

MODEL ( ): Outdoor Unit			CS-E28NFQ [CU-E28NFQ]
Technical Data		Unit	
HP			3.0
Power Source		V / Phase Hz	230 V, 1Ø Phase - 60 Hz
Cooling Capacity		kJ/h	25,920 (3,600-27,000)
Power Input		W	2,550
EER		kJ/hW	10.1
Current		A	12.2
Air Flow	Indoor (Hi)	m^3/min	16
Noise Level	Indoor (Lo)	dB (A)	33
	Outdoor	dB (A)	51
Refrigerant			R410A
Physical Data			
Dimensions (W x H x D)	Indoor	mm	540 x 1,880 x 357
	Outdoor	mm	998 x 700 x 320
Net Weight	Indoor	kg	37
	Outdoor	kg	46
Pipe Extension	Chargeless Length (max)	m	7
	Pipe Length (min-max)	m	3-15
	Elevation Difference	m	10