

# Panasonic

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Product information



Technical documents

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## PACKAGED AIR CONDITIONERS NX SERIES 2022/2023



nanoeX

INVERTER



## QUALITY AIR FOR LIFE

# NX Series Product Lineup

- All indoor units are equipped with nanoe™ X technology (Mark 2) as standard
- New DELUXE 4-Way Cassette, equipped with nanoe™ X technology (Mark 3)

Capacity [ Btu/h ]		18,100	24,000	30,000	36,200	42,000	48,100
4-Way Cassette	Indoor units  Generator Mark3		S-18PU3TA	S-24PU3TA	S-30PU3TA	S-3648PU3TA*	
	EGAT CLASS						
Adaptive Ducted	Indoor units  Generator Mark2		S-18PF3T	S-24PF3T	S-30PF3T	S-3648PF3T*	
	EGAT CLASS						
Ceiling Exposed	Indoor units  Generator Mark2		S-18PT3T	S-24PT3T	S-30PT3T	S-3648PT3T*	
	EGAT CLASS						
Outdoor Units	 	U-18PRH1T5	U-24PRH1T5	U-30PRH1T5	U-36PRH1T5	U-42PRH1T5	U-48PRH1T5
		—	—	—	U-36PRH1T8*	U-42PRH1T8*	U-42PRH1T8*

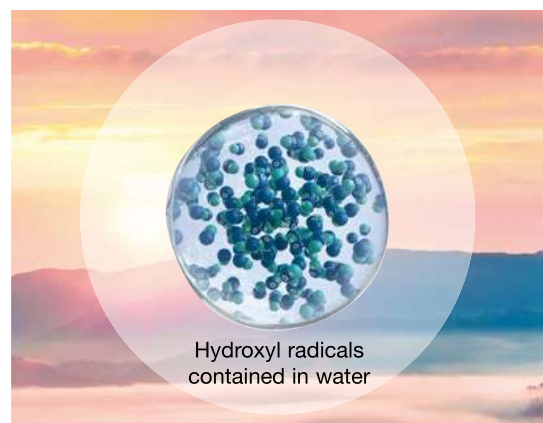
\*3-phase model newly added.

NEW

## nanoe™ X Bringing Nature's Balance Indoors

The well-being benefits of nature are well known but do you know the power of hydroxyl radicals?

Abundant in nature, hydroxyl radicals (also known as OH radicals) inhibit pollutants, viruses and bacteria to clean and deodorise. nanoe™ X technology can bring these incredible benefits indoors.



**For 4-Way Cassette, nanoe™ X Generator Mark 3 Equipped.**

### 7 Effects of nanoe™ X : Creating Cleaner Environments

nanoe™ inhibits 5 types of pollutants, deodorises and moisturises thanks to the action of hydroxyl radicals contained in water.

Deodorises



Odours

Inhibits 5 types of pollutants



Bacteria & Viruses



Mould



Allergens



Pollen



Hazardous substances

Moisturises



Skin & Hair



The evidence page of nanoe™ X effect



NEW

# Flexible Installation Adaptive Ducted

New NX Series Adaptive Ducted units can be mounted not only horizontally but also vertically without the need for alterations. Our groundbreaking drain pan design delivers a new level of flexibility in an industry-leading vertical installation.



Product information  
Website will be opened in  
November 2022



## Compact Body with Powerful 150 Pa ESP

Indoor units have also been redesigned and are now just 250 mm in height and lighter in weight, yet still deliver the same powerful 150 Pa.

## Space saving 250 mm height

**NX Series**

Height **250** mm Weight\* 25 kg

Note: In the case of 2HP



NEW

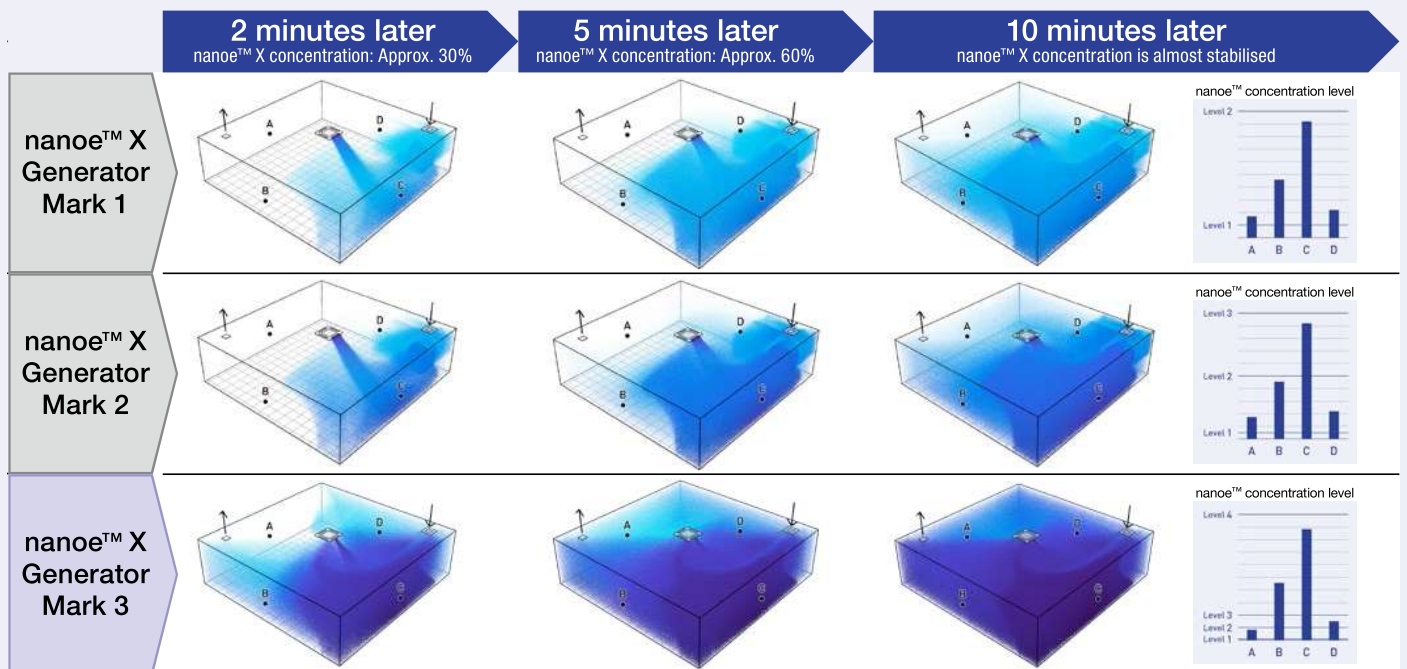
# Higher nanoe™ X Concentration, Even in Large Spaces

nanoe™ X Generator Mark 3 providing a 100-fold increase in hydroxyl radical generation\*. Greater effectiveness even in large spaces of more than 100 m².



\* Compared to original nanoe™.

## nanoe™ X Concentration Simulation: Generator Mark 3 for Highest Concentration Levels.



Conditions of the simulation : Verification space: 168 m³ / Room size: 70 m² / Room height: 2.4 m / Inspection model: 4-way cassette / Position of IDU: Centre

nanoe™ concentration level

\* 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.

## Advantages of New 4-Way Cassette

### Compact, modern & flat panel design

Featuring uniform cooling, easy installation, and with a sleek exterior, this unit is the perfect match for all commercial applications.



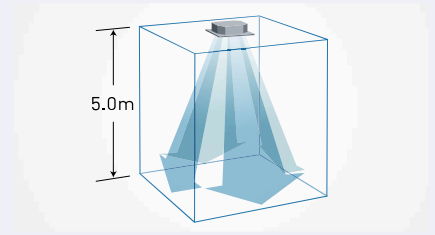
#### Powerful airflow

Thanks to its compact design the Twisted 3D Blade Fan increases airflow.



#### 360° comfortable airflow

Air coming out of the centre of the discharge outlets travels farther. Air is discharged across a wide area from the four sides of the unit.



#### Wide flap

A wider main flap and sub flap reduce turbulence and increase airflow. Also, a wider angle jetting port allows airflow to reach as far as five metres.

\* 4-Way Cassette : 3648PU type

## Advantages of Outdoor Unit



#### High durability outdoor unit

All Panasonic heat exchangers feature our Blue Fin technology, which offers enhanced corrosion resistance compared to non-Blue Fin models.



#### In-house manufactured compressor

Panasonic all in-house manufactured compressors are supplied to the world. The cumulative total of high-quality compressors in use has reached 580 million units\*.

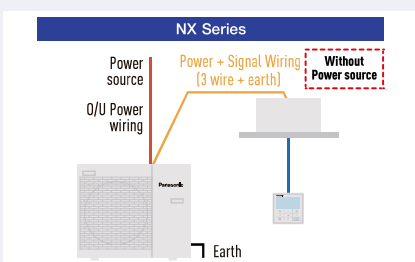
\*As of September 2019. (In-house research)



#### Next generation R32 refrigerant

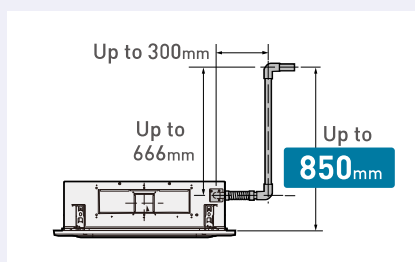
Compared to R22 and R410A, R32 has a very low potential impact on the depletion of the ozone layer and global warming.

## Installation Instruction



#### 3 wire method

This NX series has been developed with 3 wire method and communication.



#### A strong and quiet drain pump

The drain pump can pump water up to a height of 850 mm, making drain pipe layout easy. Supports for 4-way Cassette.

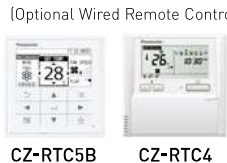


#### NEW Operation temperature

New NX series are capable of working even in the most difficult ambient conditions. Operating range expanded up to outdoor air temperature of 52°C.

# 4-WAY CASSETTE

- With the further advanced air purification technology of nanoe™ X Generator Mark 3.
- Powerful industry-leading, 360° wide, comfortable airflow.
- The drain pump can pump water up to a height of 850 mm, making drain pipe layout easy.



CZ-RTC6  
CZ-RTC6BL [BLE]  
CZ-RTC6BLW [BLE&WLAN]



[Optional]  
If not use  
CZ-RTC6BLW,  
the adaptor also  
can be used.



**nanoe™ X**  
Generator Mark3



Capacity [Btu/h(Phase)]	18,100	24,000	30,000	36,200	36,200 [3]	42,000	42,000 [3]	48,100	48,100[3]
Power Source	220V, 10Phase - 50Hz				380V, 30Phase - 50Hz	220V, 10Phase - 50Hz	380V, 30Phase - 50Hz	220V, 10Phase - 50Hz	380V, 30Phase - 50Hz
Indoor Unit	S-18PU3TA	S-24PU3TA	S-30PU3TA	S-3648PU3TA	S-3648PU3TA	S-3648PU3TA	S-3648PU3TA	S-3648PU3TA	S-3648PU3TA
Outdoor Unit	U-18PRH1T5	U-24PRH1T5	U-30PRH1T5	U-3648PRH1T5	U-3648PRH1T5	U-42PRH1T5	U-42PRH1T5	U-48PRH1T5	U-48PRH1T5
Panel	CZ-KPU3H	CZ-KPU3H	CZ-KPU3H	CZ-KPU3H	CZ-KPU3H	CZ-KPU3H	CZ-KPU3H	CZ-KPU3H	CZ-KPU3H
Cooling Capacity: Rated (Min-Max)	kW 5.30 [2.00-6.00] Btu/h 18,100 [6,820-20,500]	7.00 [2.10-8.00] 24,000 [7,170-27,300]	8.80 [2.10-10.00] 30,000 [7,170-34,100]	10.60 [3.80-11.20] 36,200 [13,000-38,200]	10.60 [3.80-11.20] 36,200 [13,000-38,200]	12.30 [3.80-14.00] 42,000 [13,000-47,800]	12.30 [3.80-14.00] 42,000 [13,000-47,800]	14.10 [5.30-15.50] 48,100 [18,100-52,900]	14.10 [5.30-15.50] 48,100 [18,100-52,900]
Current: Rated [Max]	A 5.2 [9.1]	7.8 [12.0]	10.8 [15.5]	13.4 [25.5]	13.4 [25.5]	17.5 [26.0]	17.5 [26.0]	22.7 [28.0]	22.7 [28.0]
Power Input: Rated [Min-Max]	kW 1.08 [0.26-1.35] W/W 4.91	1.69 [0.28-2.25] 4.14	2.32 [0.29-2.70] 3.79	2.71 [0.62-3.00] 3.91	2.71 [0.62-3.00] 3.91	3.55 [0.63-4.10] 3.46	3.55 [0.63-4.10] 3.46	4.60 [0.96-5.10] 3.07	4.60 [0.96-5.10] 3.07
COP/EER	Btu/hW 16.76	14.20	12.93	13.36	13.36	11.83	11.83	10.46	10.46
SEER	Btu/hW 26.27	23.03	22.52	21.80	22.43	20.60	21.00	19.30	19.30
Indoor Unit									
Air Volume	m³/min 882	25.0	34.5	34.5	34.5	36.4	36.4	36.4	36.4
Sound Pressure Level (Hi/Lo)	cfm 42 / 35	882	1,220	1,220	1,220	1,285	1,285	1,285	1,285
Sound Power Level (Hi/Lo)	dB [A] 57 / 50	42 / 35	46 / 41	46 / 41	46 / 41	47 / 41	47 / 41	47 / 41	47 / 41
Dimension	dB [A] 57 / 50	57 / 50	61 / 56	61 / 56	61 / 56	62 / 56	62 / 56	62 / 56	62 / 56
Net Weight	Indoor [HxWxD] mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Panel [HxWxD] mm	44 x 950 x 950	44 x 950 x 950	44 x 950 x 950	44 x 950 x 950	44 x 950 x 950	44 x 950 x 950	44 x 950 x 950	44 x 950 x 950
Net Weight	Indoor kg	21	21	24	24	24	24	24	24
	Panel kg	5	5	5	5	5	5	5	5
Outdoor Unit									
Sound Pressure Level	dB [A]	50	53	53	54	54	57	57	58
Sound Power Level	dB [A]	69	72	72	73	73	76	76	77
Dimension	Outdoor [HxWxD] mm	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net Weight	kg	39	39	39	69	67	69	75	73
Piping Connection	Gas Pipe mm [inch]	12.70 [1/2]	15.88 [5/8]	15.88 [5/8]	15.88 [5/8]	15.88 [5/8]	15.88 [5/8]	15.88 [5/8]	15.88 [5/8]
	Liquid Pipe mm [inch]	6.35 [1/4]	9.52 [3/8]	9.52 [3/8]	9.52 [3/8]	9.52 [3/8]	9.52 [3/8]	9.52 [3/8]	9.52 [3/8]
Pipe Length	Min-Max m	5-50	5-50	5-50	5-50	5-50	5-50	5-50	5-50
Elevation Difference	m	30	30	30	30	30	30	30	30
Maximum Chargeless Length Max	m	30	30	30	30	30	30	30	30
Additional Gas	g/m	15	25	25	25	25	25	25	25
Operation Range, Outdoor	Min-Max °C	16-52	16-52	16-52	16-52	16-52	16-52	16-52	16-52



# ADAPTIVE DUCTED

- Air intake from rear as standard. Industry-leading horizontal and vertical design.
- Powerful 150 Pa ESP and space saving 250 mm height, filter included.
- Built-in drain pump and selectable air inlet position (bottom and rear).

Selectable  
Remote  
Controller



CZ-RTC6  
CZ-RTC6BL [BLE]  
CZ-RTC6BLW [BLE&WLAN]



[Optional]  
If not use  
CZ-RTC6BLW,  
the adaptor also  
can be used.



**nanoe™ X**  
Generator Mark2



Capacity [Btu/h(Phase)]	18,100	24,000	30,000	36,200	36,200 [3]	42,000	42,000 [3]	48,100	48,100[3]
Power Source	220V, 10Phase - 50Hz				380V, 30Phase - 50Hz	220V, 10Phase - 50Hz	380V, 30Phase - 50Hz	220V, 10Phase - 50Hz	380V, 30Phase - 50Hz
Indoor Unit	S-18PF3T	S-24PF3T	S-30PF3T	S-3648PF3T	S-3648PF3T	S-3648PF3T	S-3648PF3T	S-3648PF3T	S-3648PF3T
Outdoor Unit	U-18PRH1T5	U-24PRH1T5	U-30PRH1T5	U-3648PRH1T5	U-3648PRH1T5	U-42PRH1T5	U-42PRH1T5	U-48PRH1T5	U-48PRH1T5
Cooling Capacity: Rated (Min-Max)	kW 5.30 [1.60-6.00] Btu/h 18,100 [5,460-20,500]	7.00 [1.80-8.00] 24,000 [6,140-27,300]	8.80 [2.00-10.00] 30,000 [6,820-34,100]	10.60 [3.80-11.20] 36,200 [13,000-38,200]	10.60 [3.80-11.20] 36,200 [13,000-38,200]	12.30 [3.80-14.00] 42,000 [13,000-47,800]	12.30 [3.80-14.00] 42,000 [13,000-47,800]	14.10 [5.30-15.50] 48,100 [18,100-52,900]	14.10 [5.30-15.50] 48,100 [18,100-52,900]
Current: Rated [Max]	A 6.5 [9.1]	8.6 [12.0]	11.1 [15.5]	13.6 [25.5]	13.6 [25.5]	18.3 [26.0]	18.3 [26.0]	24.3 [28.0]	24.3 [28.0]
Power Input: Rated [Min-Max]	kW 1.35 [0.24-1.55] W/W 3.93	1.85 [0.30-2.35] 3.78	2.39 [0.26-3.00] 3.68	2.76 [0.65-3.08] 3.84	2.76 [0.65-3.08] 3.84	3.70 [0.65-4.35] 3.32	3.70 [0.65-4.35] 3.32	4.91 [0.96-5.45] 2.87	4.91 [0.96-5.45] 2.87
COP/EER	Btu/hW 13.41	12.97	12.55	13.12	13.12	11.35	11.35	9.80	9.80
SEER	Btu/hW 20.85	21.29	19.96	19.79	19.89	19.04	19.28	18.53	18.56
Indoor Unit									
Air Volume	m³/min 495	21.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
External Static Pressure [Min-Max]	cfm 30 [10-150]	740	1,270	1,270	1,270	1,270	1,270	1,270	1,270
Sound Pressure Level (Hi/Lo)	Pa 32 / 27	30 [10-150]	50 [10-150]	50 [10-150]	50 [10-150]	50 [10-150]	50 [10-150]	50 [10-150]	50 [10-150]
Sound Power Level (Hi/Lo)	dB [A] 55 / 50	35 / 29	40 / 30	40 / 30	40 / 30	40 / 30	40 / 30	40 / 30	40 / 30
Dimension	dB [A] 55 / 50	58 / 52	63 / 53	63 / 53	63 / 53	63 / 53	63 / 53	63 / 53	63 / 53
Net Weight	Indoor [HxWxD] mm	250 x 800 x 730	250 x 1,000 x 730	250 x 1,400 x 730	250 x 1,400 x 730	250 x 1,400 x 730	250 x 1,400 x 730	250 x 1,400 x 730	250 x 1,400 x 730
	kg	25	30	39	39	39	39	39	39
Outdoor Unit									
Sound Pressure Level	dB [A]	50	53	53	54	54	57	57	58
Sound Power Level	dB [A]	69	72	72	73	73	76	76	77
Dimension	Outdoor [HxWxD] mm	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net Weight	kg	39	39	39	69	67	69	75	73
Piping Connection	Gas Pipe mm [inch]	12.70 [1/2]	15.88 [5/8]	15.88 [5/8]	15.88 [5/8]	15.88 [5/8]	15.88 [5/8]	15.88 [5/8]	15.88 [5/8]
	Liquid Pipe mm [inch]	6.35 [1/4]	9.52 [3/8]	9.52 [3/8]	9.52 [3/8]	9.52 [3/8]	9.52 [3/8]	9.52 [3/8]	9.52 [3/8]
Pipe Length	Min-Max m	5-50	5-50	5-50	5-50	5-50	5-50	5-50	5-50
Elevation Difference	m	30	30	30	30	30	30	30	30
Maximum Chargeless Length Max	m	30	30	30	30	30	30	30	30
Additional Gas	g/m	15	25	25	25	25	25	25	25
Operation Range, Outdoor	Min-Max °C	16-52	16-52	16-52	16-52	16-52	16-52	16-52	16-52