

PACKAGED AIR CONDITIONER NX SERIES 2021/2022

Panasonic®

**Building Passion,
Building Solutions.**
Panasonic Air Conditioning Systems

We face a time in which "quality air" differentiates business. It's a time for Panasonic to fully display its strengths. Our ability to assemble and build superior systems isn't just due to the rich resources we have as a comprehensive electronics manufacturer, but also to Panasonic's 100 years of tradition, where each person thinks and acts on their own initiative while working in a team to reach further heights. We do not compromise. Each of our independent selves is a one stop solution. We face our customers' challenges together with our customers and do all that we can to build effective systems. As a true partner for our customers, we strive to always be at the forefront of business.

- Please read the Installation Instructions carefully before installing the unit, and the Operating Instructions before using it.
- Specifications are subject to change without prior notice.
- The contents of this catalogue are accurate as of November 2021.
- Due to printing considerations, the actual colours may vary slightly from those shown.
- All graphics are provided merely for the purpose of illustrating a point.



Do not add or replace refrigerant other than the specified type. Manufacturer is not responsible for the damage and deterioration in safety due to usage of other refrigerant.

Authorised Dealer

PAC INVERTER ASIA November 2021



nanoeX

INVERTER

R32
REFRIGERANT

Panasonic®

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JOIN US ON








A Better Life, A Better World

QUALITY AIR FOR LIFE

NX Series Product Lineup

- 3-phase model newly added
- Indoor unit model name unification for better supply chain management.
- Use In-house manufactured compressor

Btu/h		18,000	21,000	24,000	30,000	34,000	43,000	48,000
4-way Cassettes 		S-1821PU3H		S-2430PU3H		S-3448PU3H		
Adaptive Ducted 		S-1821PF3H		S-2430PF3H		S-3448PF3H		
Outdoor 1-phase		U-18PR1H5	U-21PR1H5	U-24PR1H5	U-30PR1H5	U-34PR1H5	U-43PR1H5	U-48PR1H5
Outdoor 3-phase		—	—	—	—	—	U-43PR1H8	U-48PR1H8

NX Series Indoor Units Provides Better Air Quality

NEW /// 4-way Cassette

- Industry leading Powerful Airflow
- 360° Comfortable Airflow
- nanoe™ X Mark2 Standardly equipped.

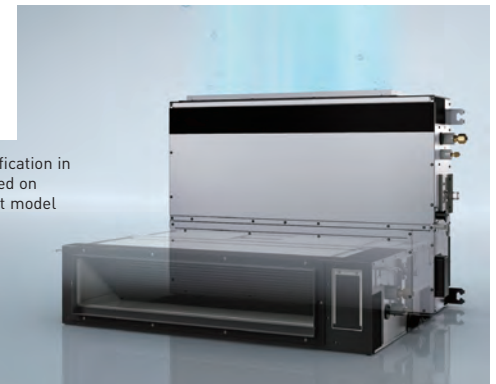


NEW /// Adaptive Ducted

- Vertically mountable ducted
- Compact body with 150Pa ESP
- nanoe™ X Mark2 Standardly equipped.



NOTE: The specification in the movie is based on European market model

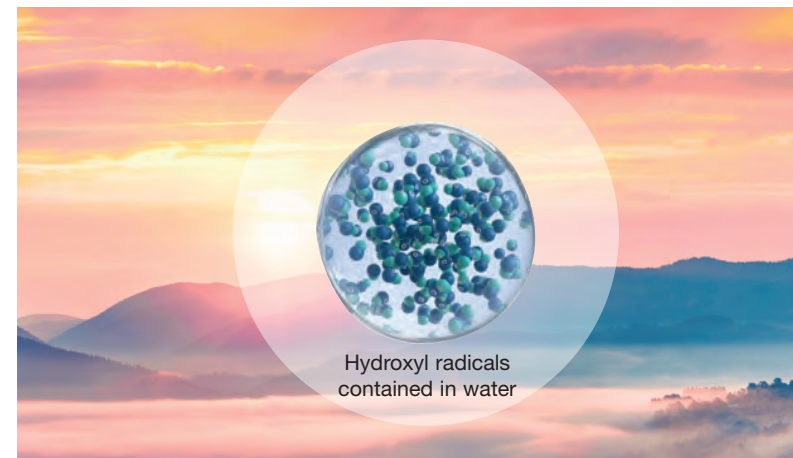


NEW ///

nanoe™ X: The 'Sensitive Choice' for Healthy Living

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


nanoe™ X is a technology that collects invisible moisture in the air and applies a high voltage to it to produce "hydroxyl radicals contained in water". Hydroxyl radicals inhibit the growth of pollutants such as bacteria and viruses.



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

nanoe™ X Effectiveness Proven in Large Space

Access to the evidence page of nanoe™ X effect



Other features

NEW ///



Simple and Sophisticated Design New RC

User friendly interface with stylish design measuring just 86 x 86 mm, Extremely compact remote controller which looks great in any room.



High Durability Outdoor Unit

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

NEW ///



Operation Temperature

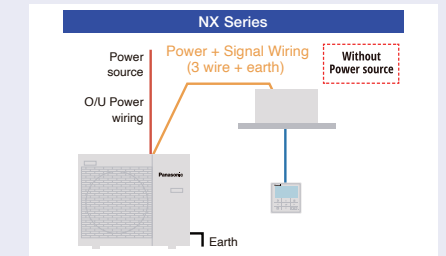
New NX series are capable of working even in the most difficult ambient conditions. Operating range expanded up to outdoor air temperature of 46°C.



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)



3 Wire Method

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



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.

NEW

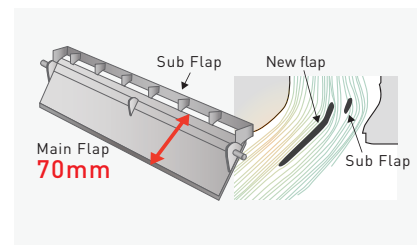
Advantages of New 4-way Cassette

Incorporating nanoe™ X as a standard feature, and integrated with a new IoT remote controller, NX Series 4-Way Cassette Units deliver a new level of air quality, great accessibility and convenience.



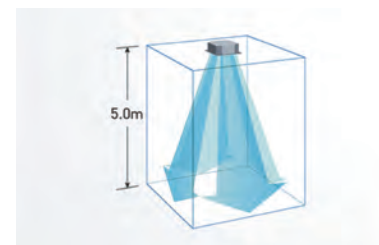
Compact, Modern & Flat Panel Design

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



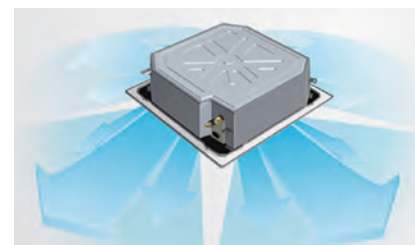
Wide Flap

A wider main flap and sub flap reduce turbulence and increase air flow.



Powerful Airflow

A wider angle jetting port allows airflow to reach as far as 5 meters. Also thanks to its compact design the Twisted 3D Blade Fan increase airflow.



360° Comfortable Airflow

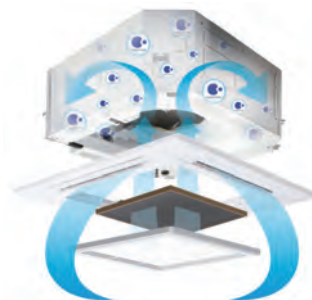
Air coming out of the centre of the discharge outlets travels farther. Air is discharged across a wide area from the four sides of the unit.

Internal Cleaning Function

In addition to the 7 effects of nanoe™ X, the indoor unit can also be cleaned with a short operation of nanoe™ X + fan mode.



Operates the fan to discharge internal humidity.



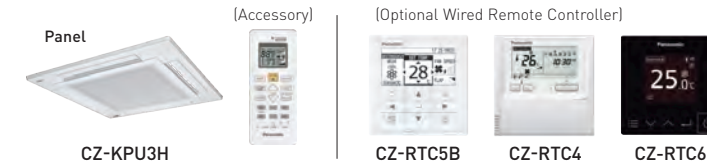
Operate the fan to circulate nanoe™ X internally.

After cooling/drying operation, the inside of the indoor unit is automatically dried with fan operation. nanoe™ X is activated to suppress mould growth and to reduce odour.

* If you wish to set the internal cleaning off function to OFF using wireless RC. Please consult an authorized dealer for setting.

4-WAY CASSETTE

- Industry-leading Powerful, 360° Wide & Comfortable Airflow.
- The drain pump can pump water up to a height of 850 mm, making drain pipe layout easy.



Capacity [Btu/h]	18,000	21,000	24,000	30,000	34,000	43,000	43,000[3]	48,000	48000[3]
Power Source	200-240V, 10 Phase - 50Hz			200-240V, 10 Phase - 50Hz			380-415V, 30 Phase - 50Hz		
Indoor	S-1821PU3H	S-1821PU3H	S-2430PU3H	S-2430PU3H	S-3448PU3H	S-3448PU3H	S-3448PU3H	S-3448PU3H	S-3448PU3H
Outdoor	U-18PR1H5	U-21PR1H5	U-24PR1H5	U-30PR1H5	U-30PR1H5	U-43PR1H5	U-43PR1H5	U-48PR1H5	U-48PR1H5
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	5.00 [2.00-5.60]	6.00 [2.00-6.30]	7.10 [2.10-8.00]	8.50 [2.10-10.00]	10.00 [3.20-11.20]	12.50 [3.80-14.00]	12.50 [3.80-14.00]	14.00 [3.80-14.71]
	Btu/h	17,100 [6,820-19,100]	20,500 [6,820-21,500]	24,200 [7,170-27,300]	29,000 [7,170-34,100]	34,100 [10,900-38,200]	42,700 [13,000-47,800]	42,700 [13,000-47,800]	47,800 [13,000-50,200]
Current: Rated (Min-Max)	A	5.2-5.5	7.5-8.0	8.5-9.2	10.7-11.7	13.7-15.0	16.9-18.5	16.9-18.5	21.9-23.9
Power Input: Rated (Min-Max)	kW	1.14 [0.38-1.50]	1.71 [0.38-2.10]	1.99 [0.30-2.26]	2.52 [0.28-3.33]	3.23 [0.61-3.73]	3.74 [0.63-4.25]	3.74 [0.63-4.25]	4.83 [0.63-5.10]
CSPF		6.27	5.89	6.08	5.97	5.89	5.80	5.80	5.23
COP/EER	W/W	4.39	3.51	3.57	3.37	3.10	3.34	3.34	2.90
	Btu/hW	15.00	11.99	12.16	11.51	10.56	11.42	11.42	9.90
Indoor Unit									
Air Volume	m ³ /min	25.0	25.0	25.0	25.0	36.4	36.4	36.4	36.4
	cfm	882	882	882	882	1,285	1,285	1,285	1,285
Sound Pressure Level (Hi/Lo)	dB [A]	42 / 35	42 / 35	42 / 35	42 / 35	47 / 41	47 / 41	47 / 41	47 / 41
Sound Power Level (Hi/Lo)	dB	57 / 50	57 / 50	57 / 50	57 / 50	62 / 56	62 / 56	62 / 56	62 / 56
Dimension	Indoor [HxWxD]	mm	256 x 840 x 840	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
	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
Net Weight	Indoor	kg	21	21	21	24	24	24	24
	Panel	kg	5	5	5	5	5	5	5
Outdoor									
Sound Pressure Level	dB [A]	49	50	51	53	55	57	57	58
Sound Power Level	dB	68	69	70	72	74	76	76	77
Dimension	Outdoor [HxWxD]	mm	619 x 824 x 299	619 x 824 x 299	619 x 824 x 299	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370
Net Weight		kg	29	29	33	39	48	67	67
Piping Connection	Gas Pipe	mm (inch)	12.70 (1/2)	12.70 (1/2)	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)	6.35 (1/4)	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 - 30	5 - 30	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50
Elevation Difference		m	20	20	30	30	30	30	30
Maximum Chargeless Length	Max	m	10	10	30	30	30	30	30
Additional Gas	g/m	15	15	15	25	25	25	25	25
Operation Range, Outdoor	Min-Max	°C	16-46	16-46	16-46	16-46	16-46	16-46	16-46

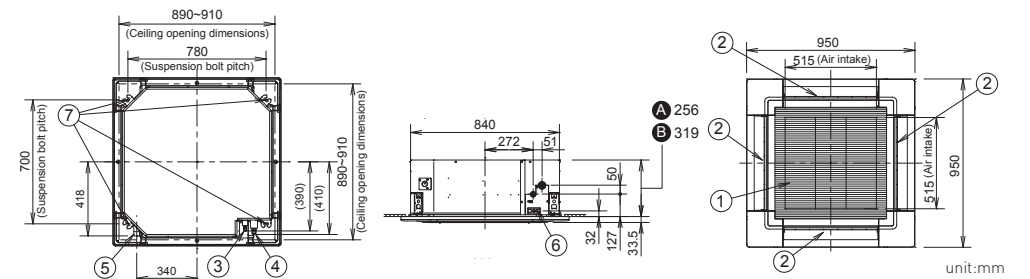
* Specifications are subject to change without notice. Please refer to technical documents for more details.
* The sound pressure level is measured in accordance with JIS C 9612 and JIS B 8616.

4-WAY CASSETTE Dimensions

- A S-1821PU3H/S-2430PU3H
- B S-3448PU3H

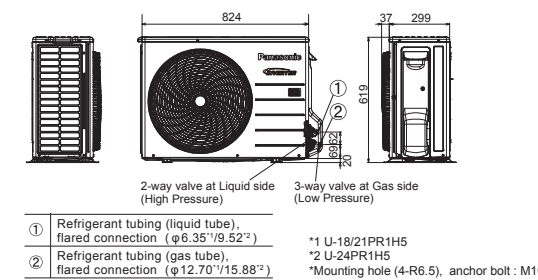
- 1 Air intake
- 2 Discharge outlet
- 3 Refrigerant tubing (liquid tube)
- 4 Refrigerant tubing (gas tube)
- 5 Drain tube connection port VP25 (outer dia. ø32)
- 6 Power supply port
- 7 Suspension bolt hole (4-12x30 elongated hole)

<Filter dimension> 520 x 520 x 15



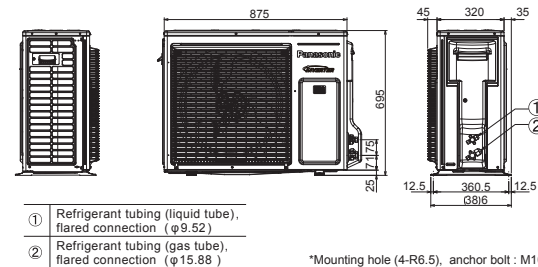
OUTDOOR UNITS Dimensions

U-18PR1H5/U-21PR1H5/U-24PR1H5



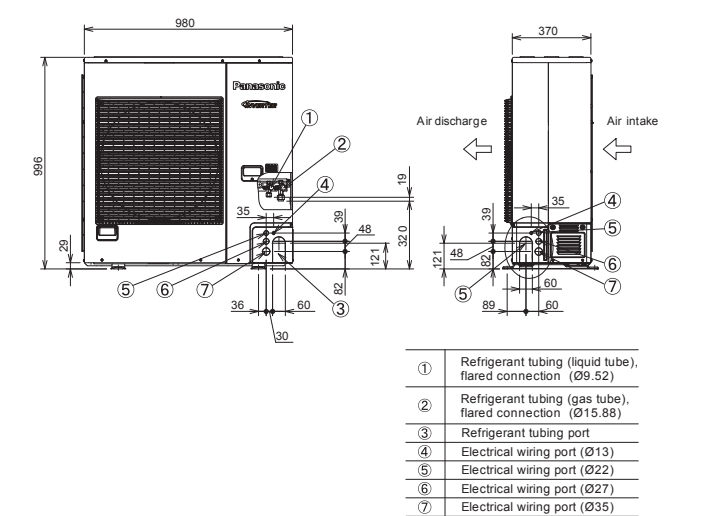
- 1 Refrigerant tubing (liquid tube), flared connection (ø6.35"/1.62")
 - 2 Refrigerant tubing (gas tube), flared connection (ø12.70"/1.588")
- *1 U-18/21PR1H5
*2 U-24PR1H5
*Mounting hole (4-R6.5), anchor bolt: M10

U-30PR1H5/U-34PR1H5



- 1 Refrigerant tubing (liquid tube), flared connection (ø9.52)
 - 2 Refrigerant tubing (gas tube), flared connection (ø15.88)
 - 3 Refrigerant tubing port
 - 4 Electrical wiring port (Ø13)
 - 5 Electrical wiring port (Ø22)
 - 6 Electrical wiring port (Ø27)
 - 7 Electrical wiring port (Ø35)
- *Mounting hole (4-R6.5), anchor bolt: M10

U-43PR1H5/U-43PR1H8/U-48PR1H5/U-48PR1H8



- 1 Refrigerant tubing (liquid tube), flared connection (ø9.52)
 - 2 Refrigerant tubing (gas tube), flared connection (ø15.88)
 - 3 Refrigerant tubing port
 - 4 Electrical wiring port (Ø13)
 - 5 Electrical wiring port (Ø22)
 - 6 Electrical wiring port (Ø27)
 - 7 Electrical wiring port (Ø35)
- *Mounting hole (4-R6.5), anchor bolt: M10

unit:mm