

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

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Panasonic Global Air Conditioner

Global Site : aircon.panasonic.com

PROClub : panasonicproclub.global







airconpanasonicglobal

QUALITY AIR FOR LIFE

A Better Life, A Better World

NX Series Product Lineup

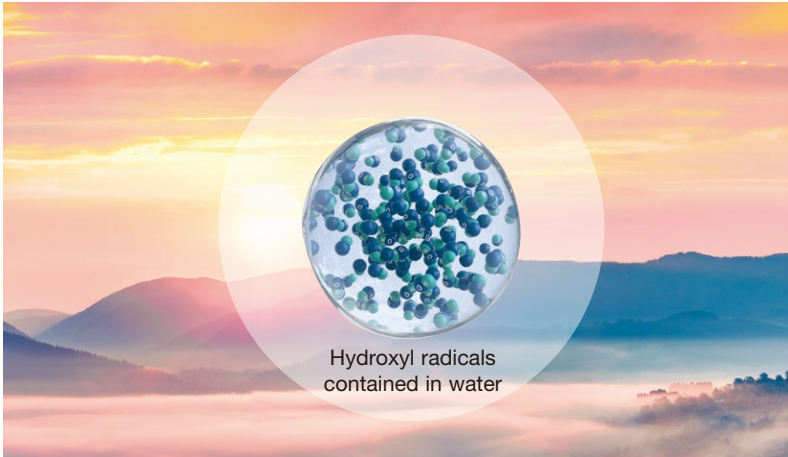
- 3-phase model newly added
- Indoor unit model name unification for better supply chain management.
- Use In-house manufactured compressor

Btu/h		18,000	21,000	24,000	30,000	34,000	43,000	48,000
4-way Cassette		S-1821PU3H		S-2430PU3H		S-3448PU3H		
Adaptive Ducted		S-1821PF3H		S-2430PF3H		S-3448PF3H		
Ceiling Exposed		S-1821PT3H		S-2430PT3H		S-3448PT3H		
Outdoor 1-phase		U-18PR1H5	U-21PR1H5	U-24PR1H5	U-30PR1H5	U-34PR1H5	U-43PR1H5	U-48PR1H5
Outdoor 3-phase		—	—	—	—	—	U-43PR1H8	U-48PR1H8

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.




Hydroxyl radicals contained in water


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



NEW ///

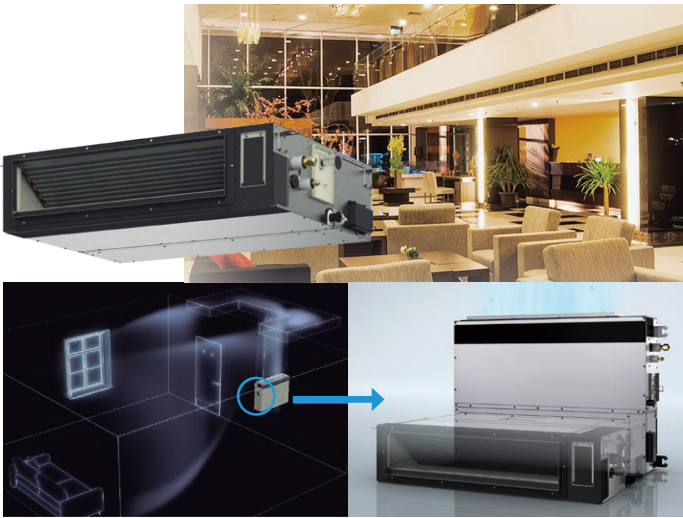
Flexible Installation Adaptive Ducted

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.



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



Compact Body with Powerful 150 Pa ESP

The indoor units have also been completely renewed, offering a 40 mm height reduction to only 250 mm* and a weight reduction of up to 10%, all while maintaining the same powerful 150 Pa.

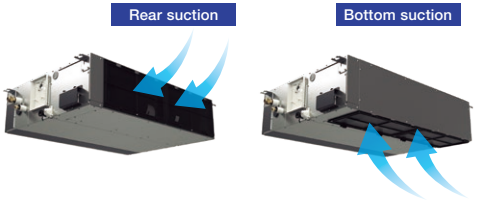
* Compared to conventional model.

Space saving 250 mm height



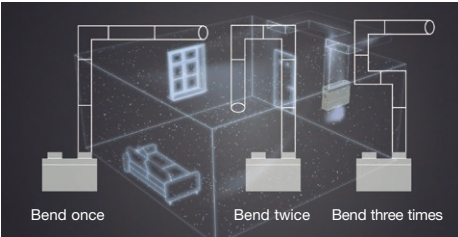
Selectable Air Inlet Position

The air inlet position is adjustable via a removable panel to allow both rear or bottom entry, depending on the duct installation.



Clean air. Ducts that deliver

nanoe™X effectiveness does not change even after traveling through 10m long duct.



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.



Advantages of New 4-way Cassette

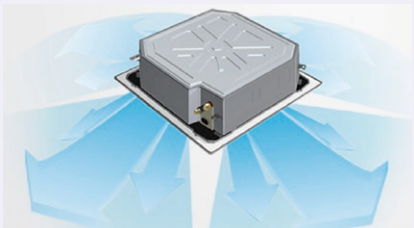
Compact, Modern & Flat Panel Design

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



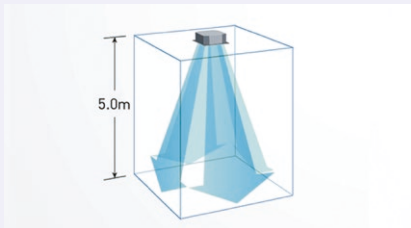
Powerful Airflow

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.

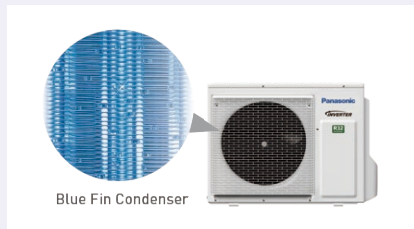


Wide Flap

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 meters.

* 4-Way Cassette : 3448PU type

Advantages for 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*.

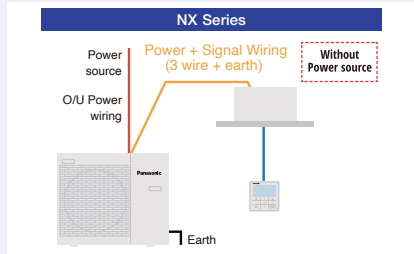
* As of September 2019. (In-house research)



Next Generation R32 Refrigerant

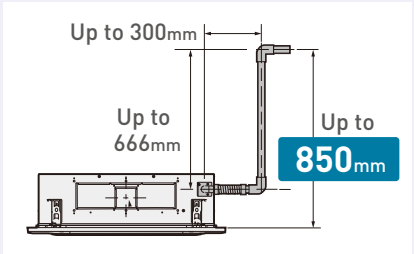
Compared to R22 and R410A, R32 has a very low potential impact on the depletion of the ozone layer and global warming.

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 46°C.

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	V/Phase Hz	200-240V, 1Ø				Phase - 50Hz		380-415V, 3Ø Phase - 50Hz		380-415V, 3Ø Phase - 50Hz
Indoor		S-1821PU3H	S-1821PU3H	S-2430PU3H	S-2430PU3H	S-3448PU3H	S-3448PU3H	S-3448PU3H	S-4848PU3H	S-3448PU3H
Outdoor		U-18PR1H5	U-21PR1H5	U-24PR1H5	U-30PR1H5	U-34PR1H5	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 Btu/h	5.00 [2.00-6.30] 17,100 [6,820-19,100]	6.00 [2.00-6.30] 20,500 [6,820-21,500]	7.10 [2.10-8.00] 24,200 [7,170-27,300]	8.50 [2.10-10.00] 29,000 [7,170-34,100]	10.00 [3.20-11.20] 34,100 [10,900-38,200]	12.50 [3.80-14.00] 42,700 [13,000-47,800]	12.50 [3.80-14.00] 42,700 [13,000-47,800]	14.00 [3.80-14.71] 47,800 [13,000-50,200]	14.00 [3.80-14.71] 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	5.6-6.1	21.9-23.9	7.2-7.9
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]	4.83 [0.63-5.10]
CSPF		6.27	5.89	6.08	5.97	5.89	5.80	5.80	5.23	5.23
COP/EER	W/W	4.39	3.51	3.57	3.37	3.34	3.34	3.34	2.90	2.90
	Btu/hW	15.00	11.99	12.16	11.51	10.56	11.42	11.42	9.90	9.90
Indoor Unit										
Air Volume	m³/min cfm	25.0 882	25.0 882	25.0 882	25.0 882	36.4 1,285	36.4 1,285	36.4 1,285	36.4 1,285	36.4 1,285
Sound Pressure Level (Hi/L0)	dB [A]	42 / 35	42 / 35	42 / 35	42 / 35	47 / 41	47 / 41	47 / 41	47 / 41	47 / 41
Sound Power Level (Hi/L0)	dB	57 / 50	57 / 50	57 / 50	57 / 50	62 / 56	62 / 56	62 / 56	62 / 56	62 / 56
Dimension	Indoor (H×W×D) Panel (H×W×D)	mm mm	256 x 840 x 840 44 x 950 x 950	256 x 840 x 840 44 x 950 x 950	256 x 840 x 840 44 x 950 x 950	256 x 840 x 840 44 x 950 x 950	319 x 840 x 840 44 x 950 x 950	319 x 840 x 840 44 x 950 x 950	319 x 840 x 840 44 x 950 x 950	319 x 840 x 840 44 x 950 x 950
Net Weight	Indoor Panel	kg kg	21 5	21 5	21 5	24 5	24 5	24 5	24 5	24 5
Outdoor										
Sound Pressure Level	dB [A]	49	50	51	53	55	57	57	58	58
Sound Power Level	dB	68	69	70	72	74	76	76	77	77
Dimension	Outdoor (H×W×D)	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	996 x 980 x 370
Net Weight	kg	29	29	33	39	48	68	67	68	67
Piping Connection	Gas Pipe Liquid Pipe	mm (inch) mm (inch)	12.70 (1/2) 6.35 (1/4)	12.70 (1/2) 6.35 (1/4)	15.88 (5/8) 9.52 (3/8)	15.88 (5/8) 9.52 (3/8)	15.88 (5/8) 9.52 (3/8)	15.88 (5/8) 9.52 (3/8)	15.88 (5/8) 9.52 (3/8)	15.88 (5/8) 9.52 (3/8)
Pipe Length	Min-Max	m	5 - 30	5 - 30	5 - 30	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50
Elevation Difference	m	20	20	20	30	30	30	30	30	30
Maximum Chargeless Length	Max	m	10	10	10	30	30	30	30	30
Additional Gas	g/m	15	15	15	25	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	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.

ADAPTIVE DUCTED

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

(Optional Wired Remote Controller)



Capacity (Btu/h)		18,000	21,000	24,000	30,000	34,000	43,000	43,000(3)	48,000	48000(3)
Power Source	V/Phase Hz	200-240V, 1Ø				Phase - 50Hz		380-415V, 3Ø Phase - 50Hz		380-415V, 3Ø Phase - 50Hz
Indoor		S-1821PF3H	S-1821PF3H	S-2430PF3H	S-2430PF3H	S-3448PF3H	S-3448PF3H	S-3448PF3H	S-3448PF3H	S-3448PF3H
Outdoor		U-18PR1H5	U-21PR1H5	U-24PR1H5	U-30PR1H5	U-34PR1H5	U-43PR1H5	U-43PR1H5	U-48PR1H5	U-48PR1H5
Cooling Capacity: Rated (Min-Max)	kW	5.00 [2.00-5.60]	6.00 [2.00-6.30]	7.10 [2.00-7.60]	8.10 [2.00-8.90]	10.00 [3.20-11.20]	12.50 [3.80-13.50]	12.50 [3.80-13.50]	13.77 [3.80-14.20]	13.77 [3.80-14.20]
	Btu/h	17,100 [6,820-19,100]	20,500 [6,820-21,500]	24,200 [6,820-25,900]	27,600 [6,820-30,400]	34,100 [10,900-38,200]	42,700 [13,000-46,100]	42,700 [13,000-46,100]	47,000 [13,000-48,500]	47,000 [13,000-48,500]
Current: Rated (Min-Max)	A	6.8-7.2	8.6-9.1	9.7-10.5	11.1-12.1	13.3-14.5	17.9-19.6	5.9-6.5	7.1-7.8	7.1-7.8
Power Input: Rated (Min-Max)	kW	1.54 [0.41-1.75]	1.95 [0.41-2.30]	2.27 [0.34-2.48]	2.60 [0.33-2.90]	3.12 [0.59-3.65]	3.96 [0.65-4.35]	3.96 [0.65-4.35]	4.77 [0.65-4.95]	4.77 [0.65-4.95]
CSPF		5.02	4.65	5.21	5.21	4.74	5.02	5.02	4.74	4.74
COP/EER	W/W	3.25	3.08	3.13	3.12	3.21	3.16	3.16	2.89	2.89
	Btu/hW	11.10	10.51	10.66	10.62	10.93	10.78	10.78	9.85	9.85
Indoor Unit										
Air Volume	m³/min	16.0	16.0	21.0	21.0	36.0	36.0	36.0	36.0	36.0
	cfm	565	565	740	740	1,270	1,270	1,270	1,270	1,270
Sound Pressure Level (Hi/L0)	dB (A)	35 / 29	35 / 29	35 / 29	35 / 29	40 / 30	40 / 30	40 / 30	40 / 30	40 / 30
Sound Power Level (Hi/L0)	dB	58 / 52	58 / 52	58 / 52	58 / 52	63 / 53	63 / 53	63 / 53	63 / 53	63 / 53
Dimension	Indoor (HxWxD)	mm	250 x 800 x 730	250 x 800 x 730	250 x 1,000 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
Net Weight	Indoor	kg	25	25	30	30	39	39	39	39
Outdoor										
Sound Pressure Level	dB (A)	50	51	51	53	55	57	57	58	58
Sound Power Level	dB	69	70	70	72	74	76	76	77	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	996 x 980 x 370
Net Weight	kg	29	29	33	39	48	68	67	68	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)	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)	9.52 (3/8)
Pipe Length	Min-Max	m	5 - 30	5 - 30	5 - 30	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50
Elevation Difference	m	20	20	20	30	30	30	30	30	30
Maximum Chargeless Length	Max	m	10	10	10	30	30	30	30	30
Additional Gas	g/m	15	15	15	25	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	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.

CEILING EXPOSED

- The slim design makes thickness only 235 mm.
- Compact Looking, Stylish, One-Motion Design.
- Comfortable, Long-Distance Airflow Distribution.

(Accessory)



(Optional Wired Remote Controller)



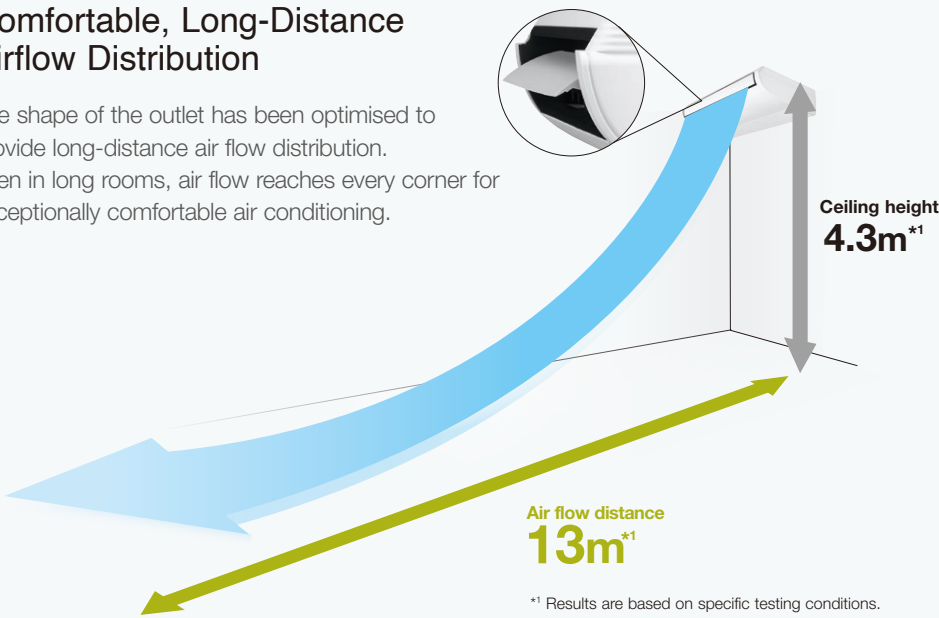
Capacity (Btu/h)		18,000	21,000	24,000	30,000	34,000	43,000	43,000[3]	48,000	48000[3]
Power Source	V/Phase Hz	200-240V, 1Ø Phase - 50Hz								
Indoor		S-1821PT3H	S-1821PT3H	S-2430PT3H	S-2430PT3H	S-3448PT3H	S-3448PT3H	S-3448PT3H	S-3448PT3H	S-3448PT3H
Outdoor		U-18PR1H5	U-21PR1H5	U-24PR1H5	U-30PR1H5	U-34PR1H5	U-43PR1H5	U-43PR1H8	U-48PR1H5	U-48PR1H8
Cooling Capacity: Rated (Min-Max)	kW	5.00 [2.00-5.60]	6.00 [2.00-6.30]	7.10 [2.10-7.80]	8.50 [2.00-9.60]	10.00 [3.20-11.20]	12.50 [3.80-13.54]	12.50 [3.80-13.54]	13.33 [3.80-14.00]	13.33 [3.80-14.00]
	Btu/h	17,100 [6,820-19,100]	20,500 [6,820-21,500]	24,200 [6,820-26,600]	29,000 [6,820-32,800]	34,100 [10,900-38,200]	42,700 [13,000-46,200]	42,700 [13,000-46,200]	45,500 [13,000-47,800]	45,500 [13,000-47,800]
Current: Rated (Min-Max)	A	5.9-6.2	8.4-9.0	8.9-9.7	11.7-12.8	14.3-15.6	18.6-20.3	6.1-6.7	20.4-22.2	6.7-7.4
Power Input: Rated (Min-Max)	kW	1.33 [0.39-1.65]	1.92 [0.39-2.25]	2.10 [0.32-2.36]	2.75 [0.29-3.31]	3.36 [0.58-3.77]	4.10 [0.68-4.50]	4.10 [0.68-4.50]	4.50 [0.68-4.80]	4.50 [0.68-4.80]
CSPF		6.18	5.65	5.51	5.86	5.04	5.08	5.08	4.98	4.98
COP/EER	W/W	3.76	3.13	3.38	3.09	2.98	3.05	3.05	2.96	2.96
	Btu/hW	12.86	10.68	11.52	10.55	10.15	10.41	10.41	10.11	10.11
Indoor Unit										
Air Volume	m³/min	15.0	15.0	21.0	21.0	35.0	35.0	35.0	35.0	35.0
	cfm	530	530	740	740	1,235	1,235	1,235	1,235	1,235
Sound Pressure Level (Hi/Lo)	dB (A)	38 / 29	38 / 29	40 / 32	40 / 32	46 / 38	46 / 38	46 / 38	46 / 38	46 / 38
Sound Power Level (Hi/Lo)	dB	56 / 47	56 / 47	58 / 50	58 / 50	64 / 56	64 / 56	64 / 56	64 / 56	64 / 56
Dimension	Indoor (HxWxD)	mm	235 x 960 x 690	235 x 960 x 690	235 x 1,275 x 690	235 x 1,275 x 690	235 x 1,590 x 690	235 x 1,590 x 690	235 x 1,590 x 690	235 x 1,590 x 690
Net Weight	Indoor	kg	26	26	34	34	40	40	40	40
Outdoor										
Sound Pressure Level	dB (A)	50	51	51	53	55	57	57	58	58
Sound Power Level	dB	69	70	70	72	74	76	76	77	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	996 x 980 x 370
Net Weight	kg	29	29	33	39	48	68	67	68	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)	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)	9.52 (3/8)
Pipe Length	Min-Max	m	5 - 30	5 - 30	5 - 30	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50
Elevation Difference	m	20	20	20	30	30	30	30	30	30
Maximum Chargeless Length	Max	m	10	10	10	30	30	30	30	30
Additional Gas	g/m	15	15	15	25	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	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.

Advantages of Ceiling Exposed

Comfortable, Long-Distance Airflow Distribution

The shape of the outlet has been optimised to provide long-distance air flow distribution. Even in long rooms, air flow reaches every corner for exceptionally comfortable air conditioning.



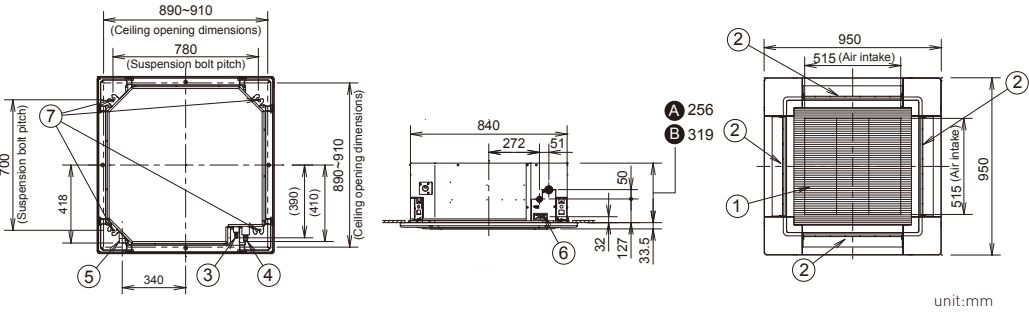
*1 Results are based on specific testing conditions.



4-WAY CASSETTE NEW 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 (4-12×30 elongated hole)



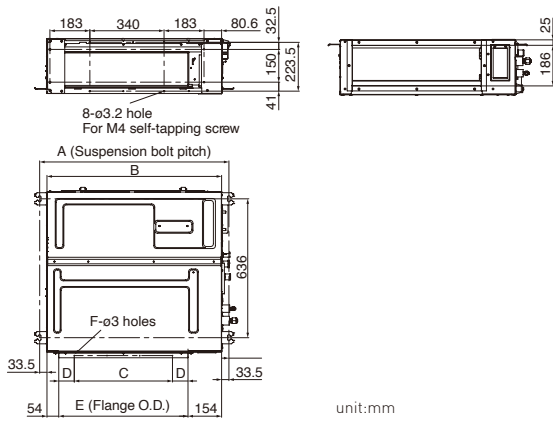
<Filter dimension> 520 x 520 x 15

ADAPTIVE DUCTED NEW Dimensions

S-1821PF3H/S-2430PF3H/S-3448PF3H

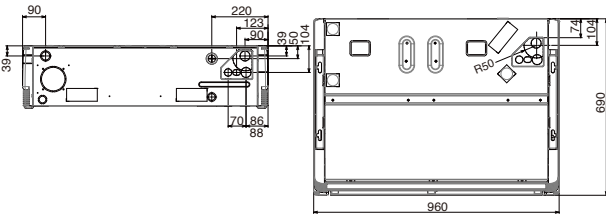
Detailed dimensions of indoor unit

Type	A	B	C	D	E	F
	mm	mm	mm	mm	mm	Q'ty
1821	867	800	450 (Pitch 150 × 3)	71	592	12
2430	1,067	1,000	750 (Pitch 150 × 5)	21	792	16
3448	1,467	1,400	1,050 (Pitch 150 × 7)	71	1,192	20

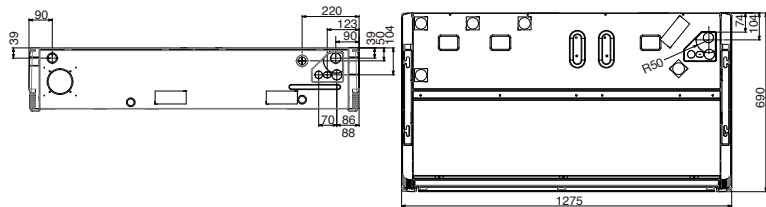


CEILING EXPOSED NEW Dimensions

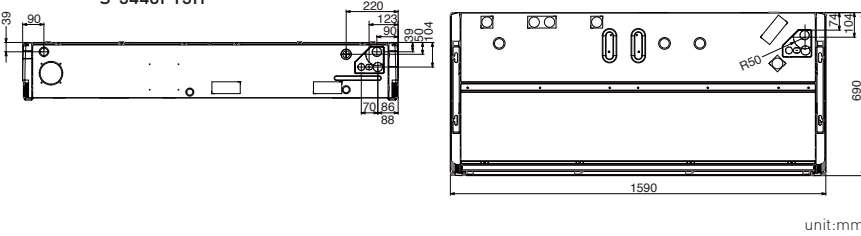
S-1821PT3H



S-2430PT3H

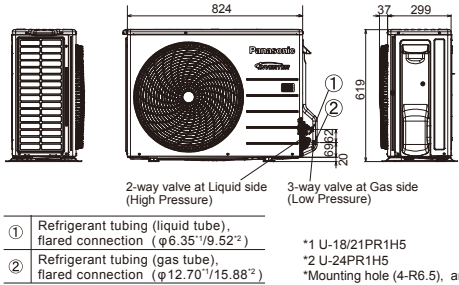


S-3448PT3H

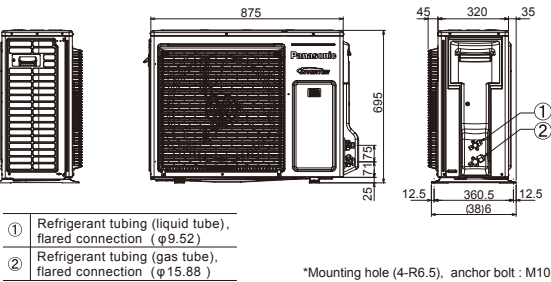


OUTDOOR UNITS NEW Dimensions

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



U-30PR1H5/U-34PR1H5



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

