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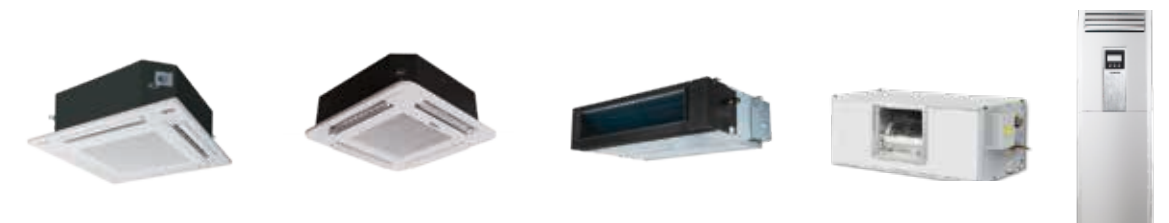
- Please read the Installation Instructions carefully before installing the unit, and the Operating Instructions before using it.
- Specifications are subject to change without prior notice.
- The contents of this catalogue are accurate as of January 2019.
- Due to printing considerations, the actual 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 INDIA JANUARY 2019



nanoe™
TECHNOLOGY

R410A



Panasonic Global Air Conditioner

Global Site : aircon.panasonic.com
PROClub : panasonicproclub.global

[airconpanasonicglobal](https://www.youtube.com/airconpanasonicglobal)

QUALITY AIR FOR LIFE



Building Passion, Building Solutions.

Panasonic Air Conditioning Systems

It's time to ride the wind.

In today's ever changing business environment, choosing the right air conditioning system and the right company to partner with can determine levels of success of a business project.

If you want to succeed, you need a partner with passion who offers flexible solutions to drive that success.

And during times of uncertainty, driving change as a "Game Changer" is the optimum means to take on challenges head on and emerge victorious.

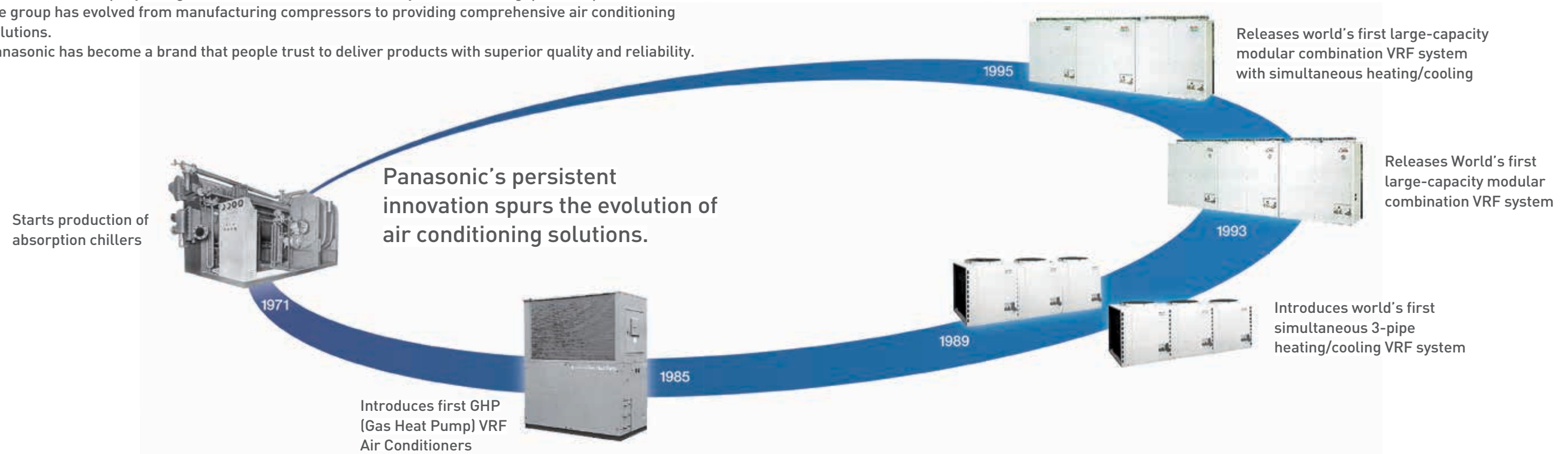
Panasonic is your partner for the future. We foresee the future and continuously innovate to develop future-proof Air-Conditioning solutions.

Standing at the forefront of innovation, maximising human potential, reliability and our uncompromising spirit, Panasonic aims to meet its customer needs head on; focused on not just meeting target KPIs, but moving people and businesses with our passion.

In all that we do, our goal is to provide an experience of true comfort for businesses and homes, helping to build business success for our clients - Building Passion and Building Solutions.

A Globally Trusted Air Conditioning Brand

With roots going back 56 years, the Panasonic Air Conditioning Business Division has grown to become a multinational company recognised around the world. Driven by a never-ending quest for product innovation, the group has evolved from manufacturing compressors to providing comprehensive air conditioning solutions. Panasonic has become a brand that people trust to deliver products with superior quality and reliability.



1958

- Panasonic (using the National brand) introduces its first Home Cooler, a window-type air conditioner model
- Electrical Appliance Business Group (Kadoma) starts manufacture of Home Coolers
- Sales of Home Coolers begin



1961

- Starts exports of Home Coolers to South Vietnam

1965

- Launches Room Coolers



1968

- Begins development of rotary compressors
- The high efficiency and quality of these compressors draws interest from domestic and overseas air conditioner manufacturers
- External sales begin

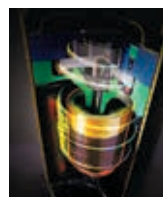
1972

- MAICO, the division's first overseas manufacturing base established in Malaysia
- Starts exports from MAICO to Japan, Indonesia, Australia and other markets
- Begins operating twin-base system out of Japan and Malaysia



1983

- Launches inverter air conditioners
- Starts sales of Panasonic's first inverter Air Conditioners
- Inverters grow to become core technology in Air Conditioner industry
- Starts shipments of Air Conditioners to Panasonic America



1985

- Begins development of scroll compressors
- Scroll compressors bring high efficiency, low noise, and low vibration in comparison to rotary compressors

1990

- Launches world's first Air Conditioner equipped with compact scroll compressor

1993

- Establishes Matsushita-Wanbao (Guangzhou) Air Conditioner (MWAC)
- Establishes Matsushita-Wanbao (Guangzhou) Compressor (MWCC)
- Establishes Matsushita Air Conditioner Engineering (Matsushita ACE)

1995

- Releases world's first large-capacity modular combination VRF system with simultaneous heating/cooling

2003

- Debuts quiet, lightweight, compact EcoCute systems with improved energy saving technology
- EcoCute adopts highly efficient, accumulator-less CO2 scroll compressor
- Begins production of new energy saving mini-VRF series multi-split packaged air conditioners for residential use
- CO2 heat-pump hot water heater (EcoCute) uses non-toxic, noncombustible natural refrigerant (CO2) instead of Freon, to reduce environmental impact
- Launches automatic filter-cleaning function for Air Conditioners (AC robot)



2005

- Panasonic products become extremely successful in Japan's air conditioner market
- Innovations such as airstream robots and motion sensors help grow Panasonic's market share

2006

- Cumulative global production of Panasonic compressors reaches 200 million units

2008

- Starts air-to-water heat pump business in Europe
- Hot water heating considered eco-friendly alternative to conventional fuel type heating systems
- Launches FSV series of large-capacity VRF air conditioners
- New Panasonic Group inaugurated
- Expands VRF operation in Malaysia
- At the Energy Conservation Grand Prize awards, Panasonic air conditioners win Chairman's Award, whilst EcoCute wins Director General Prize (prizes presented by Energy Conservation Center of Japan)



2009

- Establishes sales company in Europe PHAAE dedicated to selling air conditioners
- Panasonic HA Air-Conditioning Europe (PHAAE) strengthens company's commercial air conditioning business

2010

- Begins collaboration with SANYO air conditioner business
- Through share exchange, SANYO and Panasonic Electric Works become wholly owned subsidiary

2011

- Launches FSV series of large-capacity VRF air conditioners

2012

- New Panasonic Group inaugurated

2013

- Expands VRF operation in Malaysia



Panasonic Provides Ideal Solutions For A Variety of Air Conditioning Needs.

Model Line-up

BTU/HR		18K	21K	24K	30K	36K	43K	48K	66K	102K	132K
NON-INVERTER	Cassette COOLING ONLY 										
	Cassette COOLING ONLY 										
	Cassette HOT/COLD 										
	Low/Mid Static Ductable HOT/COLD 										
	High Static Ductable COOLING ONLY 										
Floor Standing AC HOT/COLD											

Panasonic offers a range of turnkey Air Conditioning solutions for homes, medium-sized buildings such as offices, restaurants & retail outlets. These products offer maximum effectiveness, comply with the strictest environmental standards and meet the most avant-garde construction of our time. Because offering you the best in cooling solutions matters.



nanoe™ X Mechanism

Amount of OH radicals increases without increasing amount of ozone, leading to improved effectiveness!

Generation Mechanism

nanoe™ X is generated from moisture in the air

Structure

OH radical

Electron
Water

5-20nm × 4.8 trillion

How to Deodorize Odor*1 *2 *3

How to Inhibit Bacteria, Virus and Mold *4 *5 *6 *7 *8



nanoe™ is Panasonic's unique air purifying technology. Introduced in 2003, nanoe™ has brought comfortable, clean air to a wide variety of living environments. By conducting further research & development, Panasonic has now succeeded in developing nanoe™ X, with dramatically increased performance.

nanoe™ X Improves Air Quality

Panasonic's unique nanoe™ X has an outstanding effect on various air pollutants, including allergens, viruses and bacteria, as well as cigarette and other household odors. It takes reliable air purification performance another step forward.



Deodorizes unpleasant odors*1 *2 *3



nanoe™ X works on the substances responsible for odors to deodorize them.

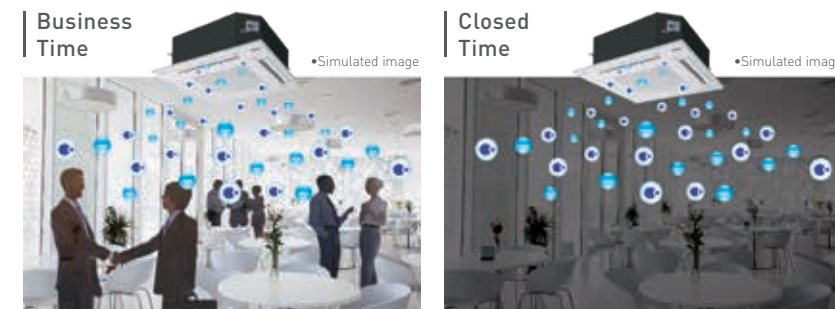
Inhibits bacteria and virus*4 *5 *6 *7 *8



nanoe™ X suppresses airborne particles including bacteria, viruses and mould.

Also Cleans the Air When Not Air Conditioning

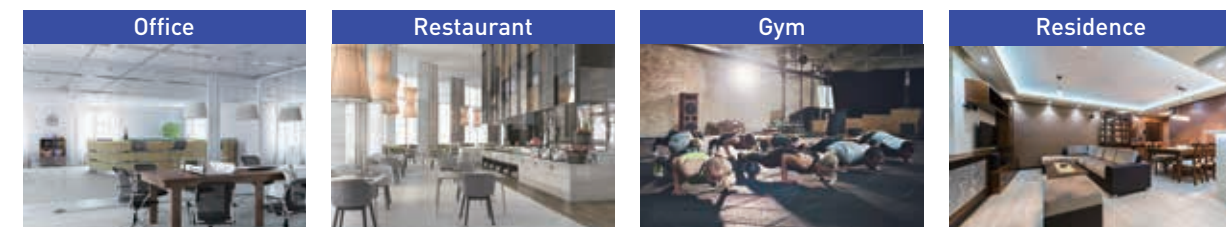
You can also use nanoe™ X in Fan mode when you're not cooling or heating the room. For example, you can use nanoe™ X to effectively suppress bacteria and odors without using excessive electricity when the office is empty or after business hours in a restaurant.



AC Mode + nanoe X
nanoe™ X purifies the room while maintaining the comfort temperature when people are in presence.

FAN Mode + nanoe X
After closing shops and facilities, nanoe™ X can perform air purification while they are not in use.

Case Examples of nanoe™



*1 Adhering odor of cigarette [Effectiveness]: Decrease by 1.7 level [Testing Institute]: Gunma Research Center [Test Report No.]: No. 27055 [Result]: Decrease in odor intensity by 0.7 level after 2 hour of operation.
 *2 Floating odor of cigarette [Effectiveness]: Decrease by 0.8level [Test Lab Size]:136.5m3 [Testing Institute]: Panasonic Corporation Product Analysis Center [Test Report No.]: 4AA33-170117-A01 [Result]: Decrease in odor intensity by 0.8 level after 2 hour of operation.
 *3 Adhering odor of Meat Grilling [Effectiveness]: Decrease by 0.9 level [Test Lab Size]:67.7m3 [Testing Institute]: Panasonic Corporation Product Analysis Center [Test Report No.]: 4AA33-170203-A03 [Result]: Decrease in odor intensity by 0.9 level after 2 hour of operation.
 *4 Mould [Effectiveness]: Inhibit Mould Growth [Testing Institute]: Japan Food Research Laboratories [Test Report No.]: 13044083002-01 [Result]: The growth of the subject was inhibited after 8-hour nanoe™ operation.
 *5 Bacteria [Effectiveness]: 99% [Testing Institute]: Kitasato Research Center for Environmental Science [Test Report No.]: KRCEs-Env. Test Report 24_0301_1 [Result]: 99% of deactivation after 4-hour nanoe™ operation.
 *6 Bacteria [Effectiveness]: 99% [Testing Institute]: Japan Food Research Laboratories [Test Report No.]: 13044083002-01 [Result]: The growth of the subject was inhibited after 8-hour nanoe™ operation.
 *7 Viruses [Effectiveness]: 99% [Testing Institute]: Kitasato Research Center for Environmental Science [Test Report No.]: KRCEs-Env. Test Report 24_0300_1 [Result]: 99% of deactivation after 6-hour nanoe™ operation.
 *8 Viruses [Effectiveness]: 99% [Testing Institute]: Japan Food Research Laboratories [Test Report No.]: 13001265005-01 [Result]: 99% of deactivation after 8-hour nanoe™ operation.

Flexible Installation **NEW**



INVERTER Series

Advantages of Panasonic Inverter System



High Efficiency Energy Performance

The performance of our previous models is now achieved by smaller outdoor unit. The Coefficient of Performance has been greatly improved to reduce power consumption.



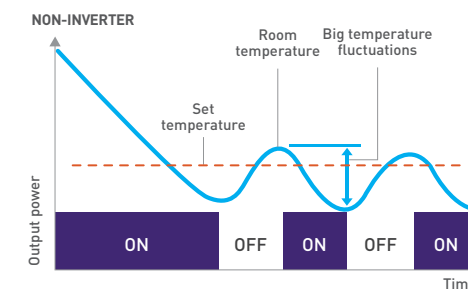
*4-Way Cassette 18k Btu model



Inverter Technology

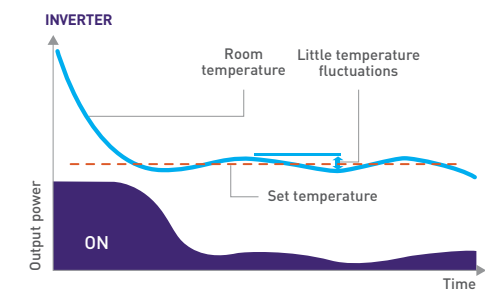
Precise Temperature Control

INVERTER prevents wasteful energy consumption by varying the compressor rotation speed to maintain the set temperature.



Legend: ■ Output Power — Temperature
Remark: Energy is wasted by switching the compressor ON and OFF to maintain the set temperature.

Non-INVERTER air conditioner can only operate at a constant speed which is too powerful to maintain the set temperature. This results in wider temperature fluctuations leading to wasteful consumption of energy.

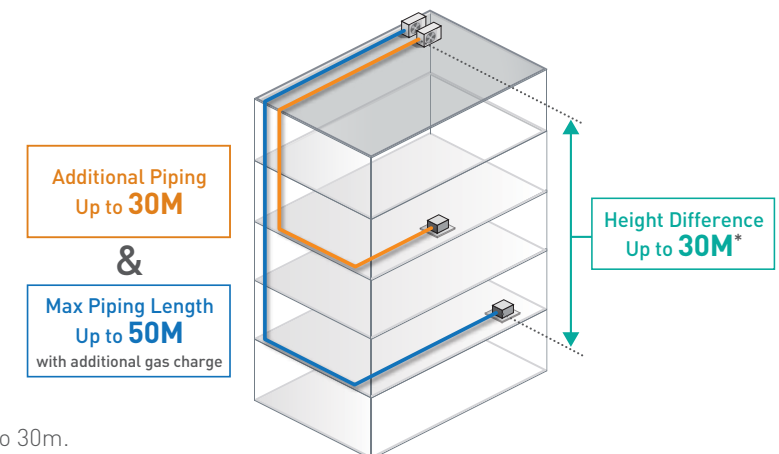


Legend: ■ Output Power — Temperature
Remark: Saves energy by varying the rotation speed of the compressor to maintain the set temperature.

The Panasonic INVERTER air conditioner varies the compressor's rotation speed, providing a precise method of maintaining the set temperature and it gives you exceptional energy saving performance.

Easy Installation

Piping can be extended up to 30m without additional gas charging, and up to 50m with additional gas charging. By giving you more flexibility in positioning the outdoor unit, this gives you a wider range of installation options.



Refrigerant Charge less Up to 30m

No additional gas charging is needed up to 30m. Installation is easy and hassle-free.

* 4-Way Cassette (Capacity Class 17.1/20.5K Btu): 25m

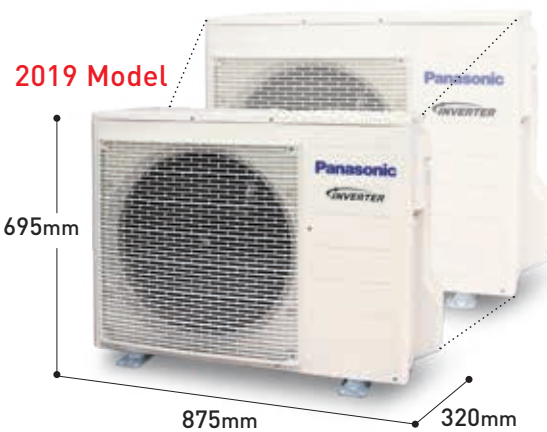
Space Saving Outdoor Unit

Panasonic's ingeniously designed outdoor units are compact in size to fit into any space and layout. Its smaller size makes it easy to install even in limited spaces. Flexibility in piping allows more freedom in installation leading to a reduced installation costs.

18-30k Btu Model

4 Way Cassette Outdoor Units (U-18PS2Y5 / U-21PS2Y5 / U-24PS2Y5 / U-30PS2Y5)

Conventional Model (CU-YT19KBY50)
H795 × W875 × D320



Height 795 mm	695 mm	↓ 100 mm Shorter
Weight 65 kg	41 kg*	↑ 24 kg Lighter

48k Btu Model

4 Way Cassette Outdoor Units (U-48PS2Y5)

Conventional Model (CU-YT43KBY50)
H1,170 × W900 × D320



Height 1,170 mm	996 mm	↓ 174 mm Shorter
Weight 94 kg	81 kg*	↑ 13 kg Lighter

*18PS/21PS:41kg, 24PS/30PS:43kg

Remote Controller



Precise Control, Easy Comfort

Panasonic Packaged Series Remote Controllers are designed with user comfort in mind. Multiple settings are available so airflow and air quality can be regulated according to preferences. Users can also opt for a wired remote controller equipped with high-performance timer.



Wired Remote Controller CZ-RD513C

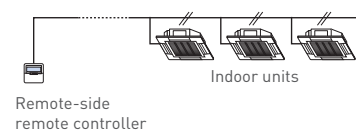


Wireless Remote Controller / Receiver CZ-RL013UH



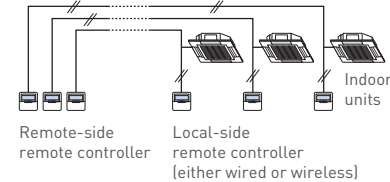
Settings can be regulated with 3 control options:

Group Control by a single remote controller



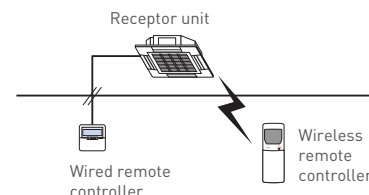
- All indoor units operate in the same mode.

Separate Control by Twin Remote Controllers



- Each indoor unit can be operated by either of the two remote controllers.
- Apart from the timer setting time, the displays for the two remote controllers are identical.
- The last button pressed has priority (The main or slave attribute is set with the remote controller).

Common Control by Both Wired and Wireless Remote Controllers



- The last button pressed has priority (using either wired or wireless remote controllers).

Weekly Timer

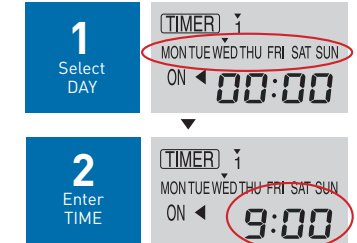
- Timer can be set for each day of the week.
- Can be pre-set with: •Max. 6 settings/day •42 settings/week.
- The temperature can also be programmed for optimal comfort.

Pre-sets for different conditions

Businesses with regular off days	Businesses with varying visitor flows at different timings	Can be set to switch off automatically
Example: Saturday afternoon – CLOSED Sunday – CLOSED	Example: Lunchtime – More visitors, lower temperature	Example: Avoid power wastage even if users forget to turn it off (weekdays)
Mon-Fri On 9:00, Off 18:00 Sat On 9:00, Off 12:00 Sun Not set	Daily Settings On 12:00 23°C On 14:00 28°C	Mon-Fri Off 20:00

- Timer settings can be different everyday of the week.
- Timing & temperature can be set simultaneously.
- Timer can be set for simple shut-off operation.

Setting the timer



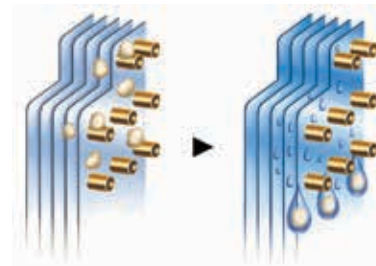
*Simple Timer Mode
Using the 24-Hour ON/OFF timer, ON/OFF operations can be set at the same time daily.

Odor Wash



Reduces unpleasant odors caused by the air conditioner's heat exchanger.

Odor Removing ONE PUSH



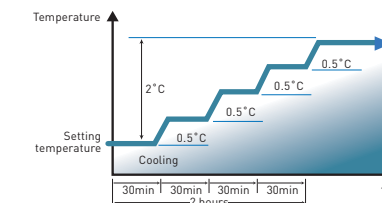
When air from the outlet smells musty, moisture in the heat exchanger washes away odors.

Can be operated with the wireless remote controller.

Economy Mode



Saves up to 20%* energy. The air conditioner determines the stable condition and moderately shifts the set temperature in 0.5-degree steps to regulate the energy-saving operation (max. 2 degrees).



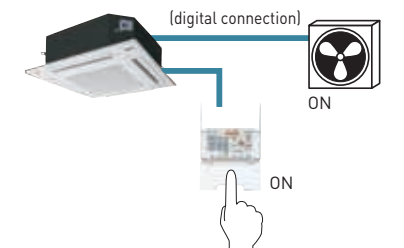
*During operating in the cooling mode at the remote control set temperature of 25 under the cooling standard temperature conditions.

Can be operated with the wireless remote controller.

Ventilation



When an external device such as a ventilator is connected to the indoor unit, the ventilator's ON/OFF operations can be controlled by the wired remote controller. You can select from either link-ventilation or independent-ventilation.

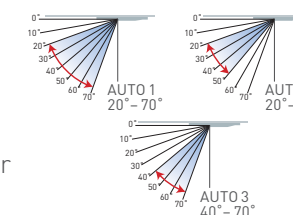


Ventilators are not included in the product line-up. OPTIONAL : Printed circuit board (Interface Adapter for External Signals CZ-TA31P*) is needed.

- *Printed Circuit Board CZ-TA31P
- By connecting to the indoor unit, a separately sold ventilator can be controlled.
- Remote operation control of the indoor unit is enabled (ON/OFF control).
- The condition of the indoor unit (malfunctions, operating status) can be output externally.
- Control in linkage to a total heat exchanger or similar devices is possible.

Multi Comfort Air Control

New control technology gives users a wide selection of more specific airflow angles. Choose from the 3-Pattern Auto Swings to avoid direct exposure to cool air (total 50-degree swing width).

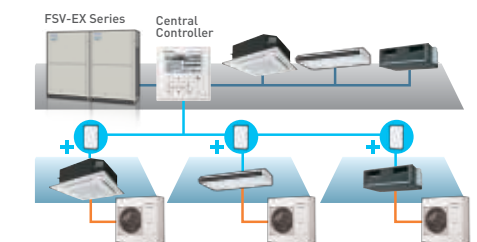


Central Control Adapter

Using Central Control Adapter along with the existing VRF units, a centralized control system is possible. Temperature management can be achieved by expanding low-to-mid sizes together.



Even buildings with additional air conditioning systems can be central controlled





INVERTER Cassette



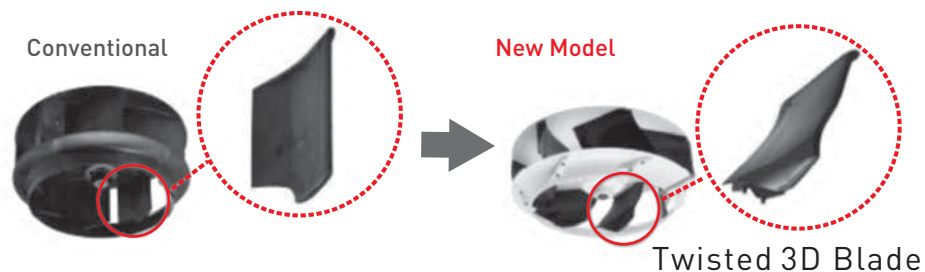
COOLING ONLY **nanoe™** TECHNOLOGY **R410A**

Technical Focus

- nanoe™ X for air purification
- Powerful air flow
- Wide flap
- Simplistic design
- LCD wireless remote controller
- Easy installation design

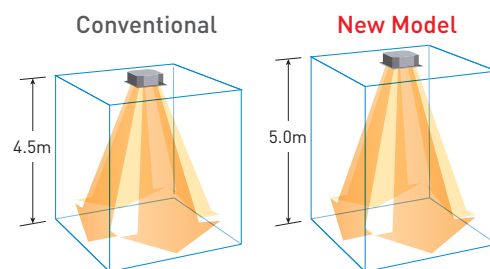
Powerful Airflow

The Twisted 3D Blade Fan with compact design can increase airflow.



Wide Flap

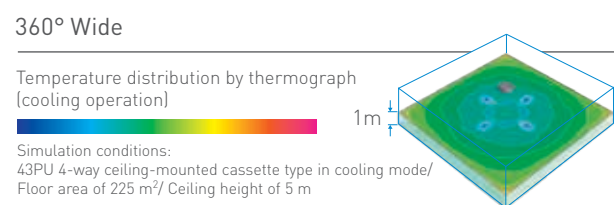
Adding a sub flap and widening the main flap have reduced turbulence and increased airflow. Also, the wider angle jetting port allows the airflow to reach as far as five meters.



360° Wide & Comfortable Airflow

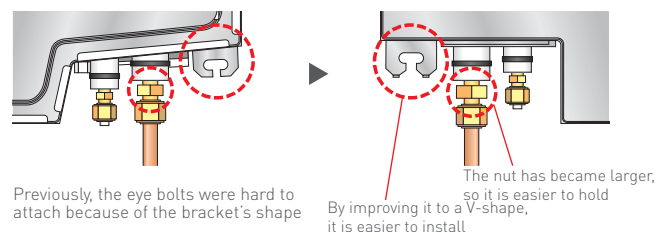
Air coming out of the centre of the discharge outlets travels farther.

Air is discharged across a wide area from the four sides of the unit. The curves on the room temperature distribution graph expand gently out through 360° in a circle centred on the indoor unit.



Easy Installation Design

With conventional models, it was difficult to use tools without damaging the interior. This has been redesigned for easier installation.



Model	Indoor Unit		S-18PU2Y5	S-21PU2Y5	S-24PU2Y5	S-30PU2Y5	S-48PU2Y5	
	Outdoor Unit		U-18PS2Y5	U-21PS2Y5	U-24PS2Y5	U-30PS2Y5	U-48PS2Y5	
	Panel		CZ-KPU3H	CZ-KPU3H	CZ-KPU3H	CZ-KPU3H	CZ-KPU3H	
Capacity	Cooling	kW	5.0 [2.2-5.7]	6.0 [2.3-6.8]	7.1 [2.7-9.2]	8.5 [3.2-10]	14.0 [5.2-15.4]	
		Btu/h	17100 [7510-19500]	20500 [7850-23200]	24200 [9210-31400]	29000 [10900-34100]	47800 [17700-52600]	
EER/COP	Cooling	W/W	3.97	3.70	3.55	3.14	3.07	
ISEER/BEE Star Rating			5.04 / 5 star	4.80 / 5 Star	4.69 / 5 Star	4.10 / 4 Star	N.A.	
Electrical Rating	Cooling	Running current	A	5.6	7.3	9.0	12.1	22.0
		Power input	kW	1.26	1.62	2.00	2.71	4.56
Power Source	V/Phase/Hz		230 V/1 Ph/50Hz					
Indoor Unit								
Air Volume		CMH	1320	1380	1500	1500	2184	
Sound Pressure Level*	H	dB(A)	40 / 32	40 / 33	42 / 33	42 / 33	47 / 42	
Dimension	Indoor WxDxH	mm	840x840x256	840x840x256	840x840x256	840x840x256	840x840x319	
	Panel WxDxH	mm	950x950x33.5	950x950x33.5	950x950x33.5	950x950x33.5	950x950x33.5	
Net Weight Indoor		kg	21	21	21	21	24	
Outdoor Unit								
Compressor Type			Rotary	Rotary	Rotary	Rotary	Rotary	
Sound Pressure Level	H	dB(A)	47	48	48	49	56	
Dimension	HxWxD	mm	695x875x320	695x875x320	695x875x320	695x875x320	996x980x370	
Net Weight Outdoor		kg	41	41	43	43	81	
Piping Connections	Gas	mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	
	Liquid	mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	
Maximum Pipe Length		m	50	50	50	50	50	
Maximum Elevation Difference		m	25	25	30	30	30	
Maximum Chargeless Length		m	30	30	30	30	30	
Refrigerant Type			R410a	R410a	R410a	R410a	R410a	
Power Cable/Control Wire	From ODU to IDU	Sq.mm	4Cx2.5 sq mm	4Cx2.5 sq mm	4Cx2.5 sq mm	4Cx2.5 sq mm	4Cx2.5 sq mm	
Power Cable	To ODU	Sq.mm	3Cx2.5 sq mm	3Cx2.5 sq mm	3Cx2.5 sq mm	3Cx2.5 sq mm	3Cx6 sq mm	

Rating Conditions

	Cooling
Inside Air Temperature	27°C DB / 19°C WB
Outside Air Temperature	35°C DB / 24°C WB



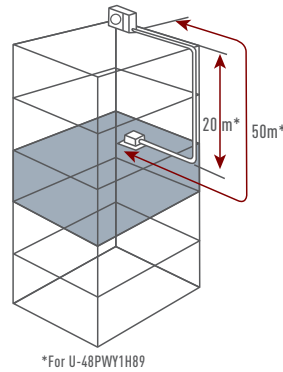
* The Sound Pressure Level of the Outdoor Unit shows the value measured at a position 1 meter in front of the main body and 1.5 meters from the ground.



NON-INVERTER Series

Longer Piping length

Piping can be extended upto 50m* with additional gas charging. By giving you more flexibility in positioning the outdoor unit, this gives you a wider range of installation options.



Auto Restart

In case a power failure occurs, unit resumes operation automatically in previous operation mode.

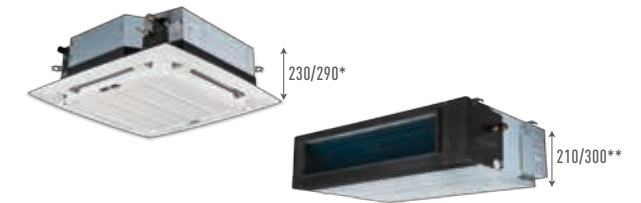
NON-INVERTER Series

New Designed Panel

New design which is more suitable for room decoration and higher air flow.



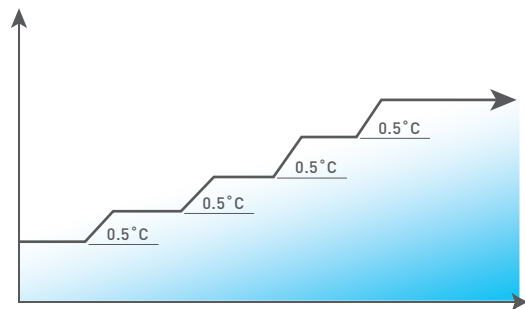
Low Ceiling Height Design



*230mm for 1.5 & 2 TR cassette and 290mm for 3 & 4 TR cassette
**210 for 1.5 TR ductable, 270 for 2 TR & 3 TR ductable, 300 for 4 TR ductable

Economy Mode

The Air Conditioner judges the stable condition & moderately shifts the set temperature in 0.5 degree steps to control the energy savings operation.



Wired Remote Control

A Wired remote controller is also available (optional with cassettes) for hotel like application.



Remote Controller



Easy Clean Filter

Filters can be removed easily for cleaning and maintenance.

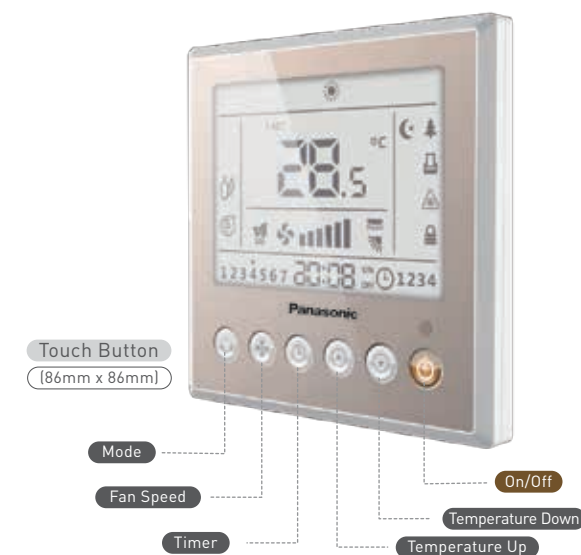


High Air Flow Rate

High air flow rate results into quicker cooling of the conditioning area.



Wired Controller





NON-INVERTER Cassette



COOLING ONLY



Technical Focus

- High Air Flow
- Auto restart
- Auto fan mode
- Economy mode
- 3D Indoor Fan
- Cooling and Heating mode

High Efficiency

Designed to be durable enough to withstand extreme heat, ensures reliable cooling operation over an extended operation range up to

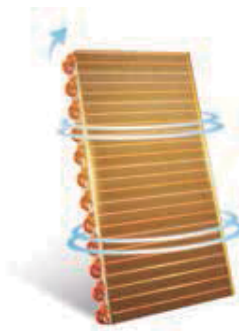
52°C

*Model No. S-24PUY1Y5/U-24PVY1Y5



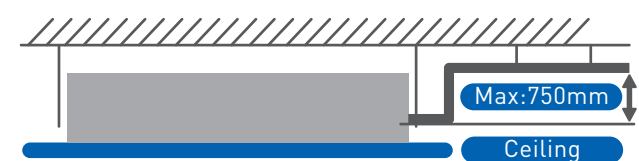
Gold Fin

Unique "Gold" coating on the condenser provides protection against corrosive elements.

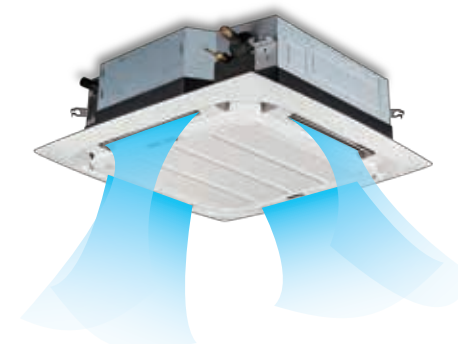


Built-in Drainage Pump

The condensing water can be lifted up to 750mm, which is convenient for installation.



Unique Panel with 360° Uniform Air Flow



Model	Indoor Unit		S-18PUY2H59	S-24PUY2H59	S-24PUY1Y5	S-36PUY1H59	S-48PUY1H59	
	Outdoor Unit		U-18PWY2H59	U-24PWY2H59	U-24PVY1Y5	U-36PWY1H89	U-48PWY1H89	
	Panel		CZ-KPU1H9	CZ-KPU1H9	CZ-KPU1AY	CZ-KPU1H9	CZ-KPU1H9	
Capacity	Cooling	kW	5.3	7.1	7.0	10.6	14.1	
		Btu/h	18000	24000	24000	36013	48089	
	Heating	kW	5.8	7.8	NA	11.3	15.1	
		Btu/h	20000	26500	NA	38658	51589	
ISEER/BEE Star Rating			3.29 / 1 star	3.29 / 1 Star	3.51 / 3 Star	2.94 / NA	2.95 / NA	
Electrical Rating	Cooling	Running current	A	7.3	9.8	12.1	9.9	13.2
		Power input	kW	1.6	2.2	2.0	3.59	4.77
	Heating	Running current	A	7.3	9.8	NA	9.8	13.1
		Power input	kW	1.6	2.2	NA	3.6	4.78
Power Source	V/Phase/Hz		220-240V/1 Ph/50Hz			380-415V/3Ph/50Hz		
Indoor Unit								
Air Volume	H/M/L	CMH	1100/950/880	1400/1200/950	1271/1095/897	1700/1500/1400	1900/1700/1500	
Sound Pressure Level*	H/M/L	dB(A)	42/39/35	43/41/37	47/44.5/42	45/43/41	47/44/43	
Dimension	Indoor WxDxH	mm	830X830X230	830X830X230	840X840X245	830X830X290	830X830X290	
	Panel WxDxH	mm	950X950X45	950X950X45	950X950X55	950X950X45	950X950X45	
Net Weight Indoor		kg	24/29	25/30	26.7	31	31	
Outdoor Unit								
Compressor Type			Rotary	Rotary	Rotary	Scroll	Scroll	
Sound Pressure Level	H/M/L	dB(A)	55	58	60	55	60	
Dimension	HxWxD	mm	605X820X300	805X900X360	810X946X410	900X805X360	1250X940X340	
Net Weight Outdoor		kg	43/47	70/77	58.7	78	103	
Piping Connections	Gas	mm (inch)	12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)	19.05 (3/4)	
	Liquid	mm (inch)	6.35 (1/4)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	12.7 (1/2)	
Maximum Pipe Length		m	25	30	25	30	50	
Maximum Elevation Difference		m	15	15	15	20	20	
Maximum Chargeless Length		m	5	5	5	5	5	
Refrigerant Type			R410a	R410a	R410a	R410a	R410a	
Refrigerant Charged		kg	1.5	2.1	2.1	2.1	3.5	
Control Wiring	From ODU to IDU	Sq.mm	3C X 1.5 Sq.mm	3C X 1.5 Sq.mm	3C X 1.5 Sq.mm	4C X 1.5 Sq.mm	4C X 1.5 Sq.mm	
Power Cable	From ODU to IDU	Sq.mm	3C X 2.5 Sq.mm	3C X 2.5 Sq.mm	3C X 2.5 Sq.mm	3C X 2.5 Sq.mm	3C X 2.5 Sq.mm	
Power Cable	To ODU	Sq.mm	3C X 2.5 Sq.mm	3C X 2.5 Sq.mm	3C X 2.5 Sq.mm	5C X 4 Sq.mm	5C X 4 Sq.mm	

Rating Conditions

	Cooling	Heating
Inside Air Temperature	27°C DB / 19°C WB	20°C DB
Outside Air Temperature	35°C DB / 24°C WB	7°C DB/6°CWB

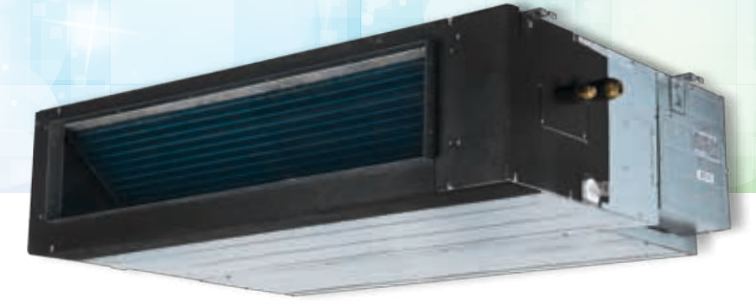


* The Sound Pressure Level of the Outdoor Unit shows the value measured of a position 1 meter in front of the main body and 1.5 meters from the ground.





NON-INVERTER Ductable



HOT&COLD **R410A**

Technical Focus

- High Air Flow Rate
- Variable Static Pressure
- Random Auto Start
- Cooling and Heating mode
- V-shaped Evaporator Coil
- Fan Mode available

Ultra Slim Design

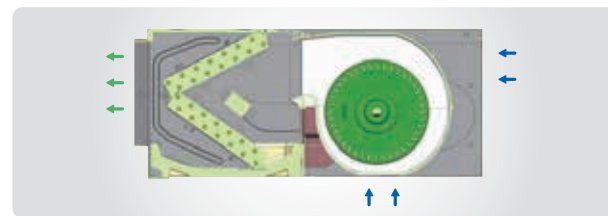
The min. height is 210mm, which saves the space of installation.



*For Model No. S-18PFY1H59

Optimized 'V' Type Evaporator

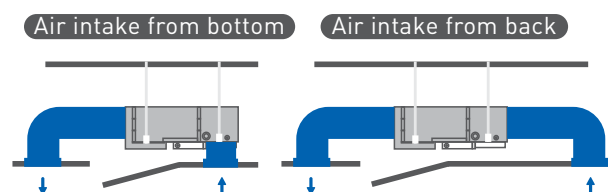
'V' type design of evaporator increases the area of heat exchanging and thus, increases its efficiency.



Super slim type only

Flexible Air Intake

It is optional to have air inlet from back or bottom with the same size of plate, which will be very flexible and convenient for installation.



Model	Indoor Unit		S-18PFY1H59	S-24PFY1H59	S-36PFY1H59	S-48PFY1H59	
	Outdoor Unit		U-18PWY1H59	U-24PWY1H59	U-36PWY1H89	U-48PWY1H89	
Capacity	Cooling	kW	5.15	7.1	10.6	14.1	
		Btu/h	17572	24225	36013	48089	
	Heating	kW	5.4	7.6	11.3	15.1	
		Btu/h	18271	25931	38658	51589	
EER/COP	Cooling	W/W	2.93	2.92	2.94	2.95	
	Heating	W/W	2.98	3.10	3.15	3.16	
Electrical Rating	Cooling	Running current	A	7.9	11.1	9.9	13.2
		Power input	kW	1.8	2.4	3.6	4.8
	Heating	Running current	A	7.8	11	9.8	13.1
		Power input	kW	1.8	2.5	3.6	4.8
Power Source	V/Phase/Hz		220-240V/1 Ph/50Hz		380-415V/3Ph/50Hz		
Indoor Unit							
Air Volume	H/M/L	CMH	1170/770/650	1400/950/800	2270/1890/1650	3010/2410/1940	
Sound Pressure Level*	H/M/L	dB(A)	39/32/29	43/35/32	46/44/42	47/44/42	
External Static Pressure		Pa	0-70	0-70	0-70	0-80	
Dimension	WxDxH	mm	920X600X210	920X600X270	1140X740X270	1200X830X300	
Net Weight Indoor		kg	25	28	41	49	
Outdoor Unit							
Compressor Type			Rotary	Rotary	Scroll	Scroll	
Sound Pressure Level	H/M	dB(A)	55	51	55	60	
Dimension	HxWxD	mm	780X605X290	900X650X310	900X805X360	1250X940X340	
Net Weight Outdoor		kg	40	52	78	103	
Piping Connections	Gas	mm (inch)	12.7 (1/2)	15.88 (5/8)	19.05 (6/8)	19.05 (6/8)	
	Liquid	mm (inch)	6.35 (1/4)	9.52 (3/8)	12.7 (1/2)	12.7 (1/2)	
Maximum Pipe Length		m	25	30	30	50	
Maximum Elevation Difference		m	15	15	20	20	
Maximum Chargeless Length		m	5	5	5	5	
Refrigerant Type			R410a	R410a	R410a	R410a	
Refrigerant Charged		kg	1.5	2	2.1	3.5	
Control Wiring	From ODU to IDU	Sq.mm	3C X 1.5 Sq.mm	3C X 1.5 Sq.mm	4C X 1.5 Sq.mm	4C X 1.5 Sq.mm	
Power Cable	From ODU to IDU	Sq.mm	3C X 2.5 Sq.mm	3C X 2.5 Sq.mm	3C X 2.5 Sq.mm	3C X 2.5 Sq.mm	
Power Cable	To ODU	Sq.mm	3C X 2.5 Sq.mm	3C X 2.5 Sq.mm	5C X 4 Sq.mm	5C X 4 Sq.mm	

Rating Conditions

	Cooling	Heating
Inside Air Temperature	27°C DB / 19°C WB	20°C DB
Outside Air Temperature	35°C DB / 24°C WB	7°C DB/6°CWB

* The Sound Pressure Level of the Outdoor Unit shows the value measured of a position 1 meter in front of the main body and 1.5 meters from the ground.

Wired Remote Controller is in same package with the indoor unit

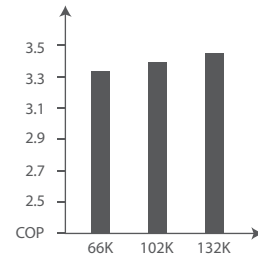


NON-INVERTER Hi-Series Ductable

R22

Highly Efficient Scroll Compressor

- Compact & energy efficient
- Low noise with more energy savings
- Low maintenance cost



Group Staggered Delay Timer

As power is restored after a power cut, this feature avoids same time starting of all the units in one building to prevent overload.

L-Shaped Condenser Coil with inner grooves

Curved L shape condenser with inner grooved copper coils for maximum heat transfer.

Single ODU Space Saving Design

A single outdoor unit for all 5.5 ton, 8.5 ton & 11 ton. Save space with ease of installation.

NON-INVERTER Hi-Series Ductable

R22

Operation Mode Selection

Allows to choose from following modes of operation:-

- Cool mode
- Fan mode

Three Speed Motors

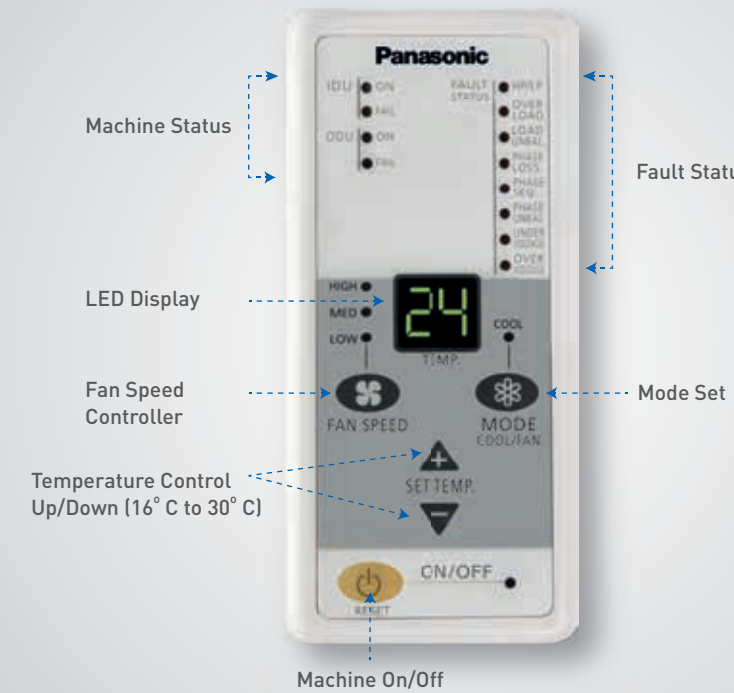
Allows to choose the desired air volume for the indoor unit.

Anti Recycle Timer

Protects the compressor from immediate restart by providing a 3 minute delay for compressor to come ON

Auto Restart

Should a power failure occur, unit resumes operation automatically in the previous set setting.



Unique Self Diagnosis Controller

Should a malfunction occur, the unit diagnoses the problem and shows the corresponding alphanumeric code. This allows for quicker servicing.



Hi-Series Ductable



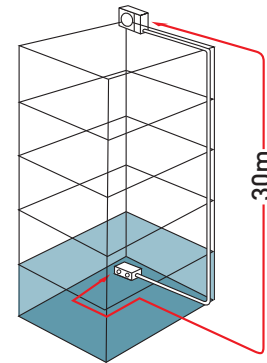
R22

Technical Focus

- Self-Diagnostic Controller
- High Energy Efficiency
- Curved L shaped Condenser Coil
- Long piping length
- Group staggered delay timer
- 3-speed motor
- Fan mode available
- Inner grooved Evaporator coil

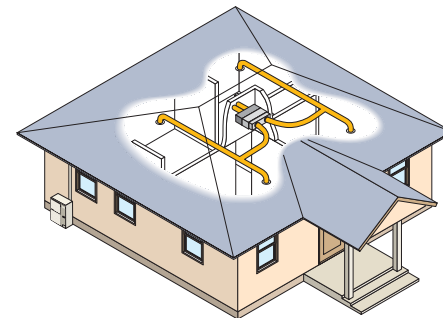
Long Piping

By giving you more flexibility in positioning outdoor unit, this gives you a wider range of installation options.



Flexible Installation

The powerful airflow enables a longer duct to be used. Since the air outlet can be installed away from the main unit, a variety of air conditioner layouts become possible.



High Energy Efficiency for Maximum Savings

High energy efficiency ratio for higher power savings for the user.

Easy Maintenance & Cleaning

Maintenance works can be done from the underside of the indoor unit.

Model	Indoor Unit		S-66PE1H59	S-102PE1H59	S-132PE1H59	
	Outdoor Unit		U-66PC1H89	U-102PC1H89	U-132PC1H89	
Capacity	Cooling	kW	19.3	29.89	38.67	
		Btu/h	66000	102000	132000	
EER/COP	Cooling	W/W	3.33	3.39	3.42	
Electrical Rating	Cooling	Running current	A	13.4	21.7	26
		Power input	kW	5.80	8.80	11.30
Power Source	V/Phase/Hz		400V/3Ph/50Hz			
Indoor Unit						
Air Volume	H/M/L	CMH	3740/3060/2380	5780/5100/4420	7480/6800/6120	
Sound Pressure Level*		dB(A)	58	60	60	
Dimension	Indoor WxDxH	mm	1220X660X460	1500X660X460	1820X660X460	
Net Weight Indoor		kg	68	94	108	
Outdoor Unit						
Compressor Type			Hermetic Scroll	Hermetic Scroll	Hermetic Scroll	
Sound Pressure Level		dB(A)	68	70	70	
Dimension	HxWxD	mm	1060x1050x440	1265x1100x545	1265x1100x545	
Net Weight Outdoor		kg	116	188	194	
Piping Connections	Gas	mm (inch)	28.58 (1 1/8)	28.58 (1 1/8)	28.58 (1 1/8)	
	Liquid	mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	
Maximum Pipe Length		m	30	30	50	
Maximum Elevation Difference		m	7.5	10	10	
Refrigerant Type			R22	R22	R22	
Control Wiring	From ODU to IDU	Sq.mm	2C x 1.0 sq mm	2C x 1.0 sq mm	2C x 1.0 sq mm	
Power Cable	From ODU to IDU	Sq.mm	3C x 2.5 sq mm	3C x 2.5 sq mm	3C x 2.5 sq mm	
Power Cable	To ODU	Sq.mm	4C x 6 sq mm	4C x 6 sq mm	4C x 6 sq mm	

Rating Conditions	
Cooling	
Inside Air Temperature	27°C DB / 19°C WB
Outside Air Temperature	35°C DB / 24°C WB

* The Sound Pressure Level of the Outdoor Unit shows the value measured at a position 1 meter in front of the main body and 1.5 meters from the ground.





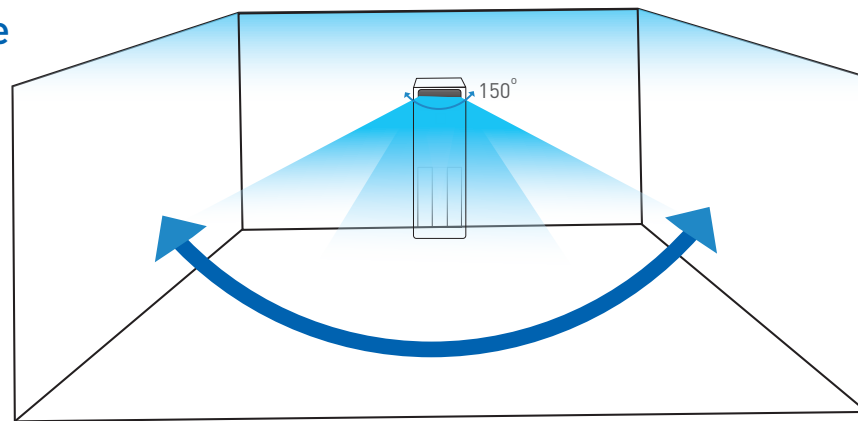
Floor Standing AC



Technical Focus

- Quiet operation
- Auto restart
- Timer mode available
- LED Display
- Easy filter cleaning
- Cooling and Heating mode
- Sleek, Stylish and Sturdy design
- Auto air swing

Auto Swing For Comfortable Air Flow Control



Up & Down directions (Horizontal louvers - To be set manually)



Model	Indoor Unit		S-24PBY2H59	S-48PBY1H59	
	Outdoor Unit		U-24PMBY2H59	U-48PWB1H89	
Capacity	Cooling	kW	6.6	14.1	
		Btu/h	22500	48109	
	Heating	kW	7.2	14.5	
		Btu/h	24397	49474	
EER/COP	Cooling	W/W	3.30	2.93	
	Heating	W/W	-	3.01	
BEE Star Rating			1 Star	-	
Electrical Rating	Cooling	Running current	A	9.2	13.2
		Power input	kW	2.1	4.8
	Heating	Running current	A	8.6	13.1
		Power input	kW	1.9	4.81
Power Source	V/Phase/Hz		220-240V/1 Ph/50Hz	380-415V/3Ph/50Hz	
Indoor Unit					
Air Volume	H/M/L	CMH	1250/810/650	1700/1600/1600	
Sound Pressure Level*	H/M/L	dB(A)	48/44/42	54/49/49	
Dimension	WxDxH	mm	480X330X1740	540X415X1776	
Net Weight Indoor		kg	36	52	
Outdoor Unit					
Compressor Type			Rotary	Scroll	
Sound Pressure Level	H/M	dB(A)	60	63	
Dimension	HxWxD	mm	900X805X360	1250X940X340	
Net Weight Outdoor		kg	56	103	
Piping Connections	Gas	mm (inch)	15.88 (5/8)	19.05 (6/8)	
	Liquid	mm (inch)	6.35 (1/4)	12.7 (1/2)	
Maximum Pipe Length		m	20	50	
Maximum Elevation Difference		m	10	20	
Maximum Chargeless Length		m	5	5	
Refrigerant Type			R32	R410a	
Refrigerant Charged		kg	1.85	3	
Control Wiring	From ODU to IDU	Sq.mm	3C X 1.5 Sq.mm	4C X 1.5 Sq.mm	
Power Cable	From ODU to IDU	Sq.mm	3C X 2.5 Sq.mm	3C X 2.5 Sq.mm	
Power Cable	To ODU	Sq.mm	3C X 2.5 Sq.mm	5C X 4.0 Sq.mm	

Rating Conditions		
	Cooling	Heating
Inside Air Temperature	27°C DB / 19°C WB	20°C DB
Outside Air Temperature	35°C DB / 24°C WB	7°C DB/6°CWB

* The Sound Pressure Level of the Outdoor Unit shows the value measured of a position 1 meter in front of the main body and 1.5 meters from the ground.

