Panasonic Commercial air to air

Here are some of your new air conditioner's major features.

Panasonic has developed an impressive range of highly efficient Commercial Air Conditioners. This range confirms our commitment to the environment, with our highly efficient inverter compressor technology to optimise performance.

Highlighted features

PACi: Commercial air to air. The compact and high efficiency solution for shops, restaurants, offices or residential applications.

Great savings and improved comfort. Panasonic has developed an impressive range of highly efficient Commercial air conditioners, with our highly efficient inverter compressor technology to optimise performance.
A wide range for industry, office or residential application. With configuration from 1:1 to 4:1, Panasonic can offer the most comfortable climate with solutions designed for every environment. The diverse array of connectivity and control systems, allows you to manage your units from any various locations. Receive real-time status updates and maintenance alerts, while optimizing costs and energy usage.

PAC*i*

Energy saving

R32 refrigerant.
Our heat pumps containing the refrigerant R32 show a drastic reduction in the value of Global Warming Potential (GWP). An important step to reduce greenhouse gases. R32 is also a component refrigerant, making it easy to recycle.

Econavi.
Intelligent Human Activity Sensor and Sunlight Sensor technologies that can detect and reduce waste energy, by optimising air conditioner operation according to room conditions. With just one touch of a button, you can save energy.

Exceptional seasonal cooling efficiency based on the ErP regulation.
Higher SEER ratings mean greater efficiency - year-round cooling savings!

Exceptional seasonal heating efficiency based on the ErP regulation.
Higher SCOP ratings mean greater efficiency - year-round heating savings!

Inverter Plus System.
Inverter Plus System classification highlights Panasonic's highest performing systems.

Inverter.
The Inverter range provides greater efficiency and comfort. Provides more precise temperature control, without highs and lows, and keeps the ambient temperature constant with lower energy consumption and a significant reduction in noise and vibration levels.

High efficiency compressor.
Compressors that operate with a wider Hz range realize a more efficient operation throughout the year. For Big PACi Series.

Panasonic R2 rotary compressor.
Designed to withstand extreme conditions, it delivers high performance and efficiency.

Better efficiency & value for domestic hot water.
Energy efficiency class up to A+ in a scale from A+ to F. For PRO-HT tank.

Better efficiency & value for low temperature applications.
On an energy efficiency scale from D to A+++, both the PACi water heat exchanger and the PRO-HT provide A++ rated heating.

High performance

Down to -15 °C in cooling mode.
The air conditioner works in cooling mode when the outdoor temperature of -15 °C.

Down to -20 °C in heating mode.
All our commercial systems operate in heating to -15 °C, with models capable of up to -20 °C.

Up to 46 °C in cooling mode.
System works in cooling mode at outdoor temperature up to 46 °C. For PACi with water heat exchanger

nanoe™ X.
Technology with the benefits of hydroxyl radicals has the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise.

Bluefin.
Panasonic has extended the life of its condensers with an original anti-rust coating. For Big PACi Series.

Large fan.
Large fan provides larger airflow rate and very quiet operation at low speed. For Big PACi Series.

DC fan.
Safe and precise.

Filter included.
Adaptive ducted with filter included.

Super Quiet.
With Super Quiet technology our devices are quieter than a library (30 dB(A)).

More comfort with Aerowings.
Direct airflow to the ceiling, creating a shower cooling effect with built-in twin flap.

DHW.
With PRO-HT Tank you can also heat your domestic hot water at a very low cost with the optional hot water cylinder.

High temperature.
With PRO-HT Tank, maximum water outlet temperature up to 65 °C.

R22 renewal.
The Panasonic renewal system allows good quality existing R22 pipe work to be re-used whilst installing new high efficiency R410A systems.

R410A/R22 renewal.
The Panasonic renewal system allows good quality existing R410A or R22 pipe work to be re-used whilst installing new high efficiency R32 systems.

High connectivity

Panasonic AC Smart Cloud.
The AC Smart Cloud from Panasonic allows you to have complete control of all your installations. In a simple click, receive status updates from all your units in real-time, preventing breakdowns and optimizing costs.

Internet control.
A next generation system providing user-friendly remote control of air conditioning or heat pump units from everywhere, using a simple Android™ or iOS smartphone, tablet or PC via the internet.

BMS connectivity.
The communication port can be integrated into the indoor unit and provides easy connection to, building management system, providing control of your Panasonic heat pump.

Domestic integration to P-Link - CZ-CAPRA1.
Can connect RAC range to P-Link. Full control is now possible.

Advanced control.
A touch screen remote controller is included as a standard. Clean design, easy operation and quick access to all menus.

Commercial outdoor units. Energy saving concept

Product quality and safety. All Panasonic air conditioners undergo strict quality and safety tests before sale. This rigorous process includes obtaining all necessary safety approvals, to ensure that all air conditioners we sell are not only built to the highest market standards, but are also completely safe.

R32
NEW REFRIGERANT GAS

Professional air conditioners with R32 refrigerant

Panasonic recommends R32, with lower Global Warming Potential (GWP). Compared to R22 and R410A, R32 has a very low potential impact on global warming.

Panasonic takes action for the environment. In line with the European countries participating in the Montreal Protocol, protecting the ozone layer and preventing global warming, Panasonic is leading the switch to R32.

1 Installation innovation
· Extremely easy to install, practically the same as R410A
· Single substance refrigerant, which makes it easier to recycle and reuse

2 Environmental innovation
· Zero impact on the ozone layer
· 75 % less impact on global warming

3 Economic and energy consumption innovation
· Lower cost and greater savings
· Higher energy efficiency than R410A

R32
GWP REDUCED BY
75%
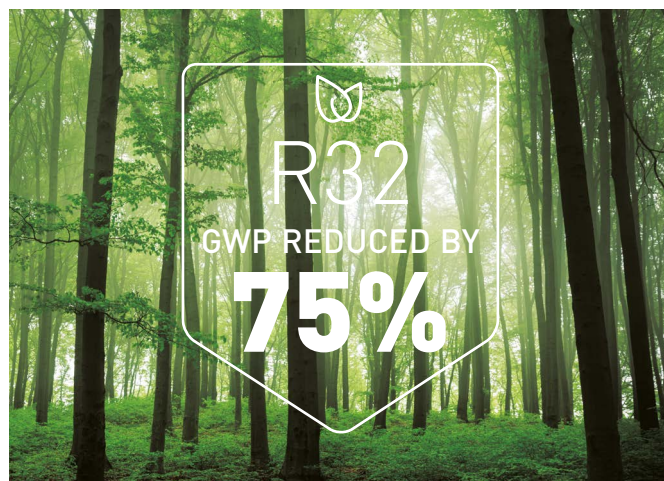
PACi NX Elite: Top-tier commercial air conditioning

Outstanding performance at extreme ambient temperatures with very high energy efficiency both in heating and cooling. Fans, fan motors, compressors and heat exchangers engineered for maximum savings result in higher seasonal efficiencies, which ranks as one of the best in the industry, ensuring reduced CO_2 emissions, energy consumption and operating costs.

From 3,6 to 14,0 kW.
· Meeting all necessary safety approvals to ensure quality and safety
· Top class SEER: A+++ / SCOP: A+++ at 3,6 kW (in 90x90 cassette)

· Cooling operation is possible when outdoor temperature as high as 48 °C (for 7,1 kW and higher capacities)
· Precise control with DC inverter technology for even more energy saving
· Cooling operation at -20 °C (10,0 kW to 14,0 kW with 30 m maximum pipe length)
· Heating operation at ambient temperature as low as -20 °C
· Compact outdoor units
· Auto restart after power outage
· Twin, triple and double-twin connections

PACi NX Standard: For economy and value

With high quality design and engineering, the PACi and PACi NX Standard are the perfect solutions for projects which demand quality on a limited budget. In addition, compact and lightweight design makes them ideal for installations with limited space including small commercial and residential applications. The slim and lightweight outdoor unit design enables installation even at very challenging locations.

From 2,5 to 14,0 kW.
· Extended range of outdoor units starting from 2,5 kW

· Good balance of system cost vs performance
· Top class SEER/SCOP in the standard inverter category SEER: A++ / SCOP: A++ up to 7,1 kW (in 90x90 cassette)
· Variety of individual and central controllers which provides full flexibility
· Compact outdoor units, small footprint and lightweight
· Twin connection possible
· Cooling operation down to -10 °C and heating operation down to -15 °C

Big PACi Elite R32

20,0 – 25,0 kW is ideally suited for small and mid retail applications.
In addition to its lightweight, split-able, compact body, the newly designed hide-away unit enables easy installation and pipe work within a narrow void.

Panasonic Big PACi : Environmental friendly, strong and flexible.
· High efficiency with Panasonic compressor as the driving force

· Compact and light indoor body
· Easy pipe work with split-able hide-away indoor design
· Separable indoor unit allows for flexible installation to fit in narrow void
· Water heat exchanger and AHU connection compatibility
· Bluefin anti-corrosion coating of the heat exchanger as standard
· Wide range of controls including Cloud Control compatibility

New PACi NX Series.
The next generation is here

NX Series with R32 refrigerant has been developed to meet the demand of easy refurbishment with 3 wired method.
Also integrated with IoT solutions and includes nanoe™ X function as standard.

NEW
SERIES
2021

1 PACi NX Series - Standard range, for absolute ease of refurbishment

This new series has been developed with 3 wired method and communication. It makes it simple and easy to replace old systems with 3 wire connections, which is prevalent in many systems.

PACi PZ2/PZH2: 2 wire method.

Power source
Signal wiring (2 wire shielded)
Power source
O/U Power wiring
Earth
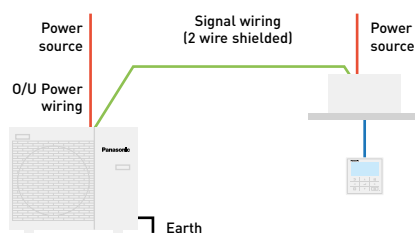
New PACi NX Series: 3 wire method.

Power source
Power + Signal Wiring (3 wire + earth)
Power source
O/U Power wiring
Earth

2 CONEX with IoT integration

The new wired remote controller series is fully integrated with IoT solutions developed by Panasonic. Detailed operation, maintenance setting and service operation are all possible with smartphone or tablet.

https://www.youtube.com/watch?v=_USzG_9f6bk&feature=youtu.be

CONEX

PACi SYSTEMS

New service checker interface

New wired remote controller

Bluetooth®

Bluetooth®   Wi-Fi

Panasonic Service & Installer

End user   End user

IoT SOLUTIONS BY PANASONIC

New Panasonic H&C Diagnosis App [1]. Service checker function (detailed operation data etc...).

New Panasonic H&C Control App [2]. Detailed operation setting. Detailed maintenance setting.

Panasonic Comfort Cloud App [3]. Detailed operation setting. Remote operation via Wi-Fi.

1) A service checker interface is required when this app is used from outdoor location. Wired remote controller (CZ-RTC6BL or CZ-RTC6BLW) is required when this app is used from indoor location. Available from winter 2020, compatible with PZ3 and PZH3 outdoor units. 2) CZ-RTC6BL or CZ-RTC6BLW required. 3) CZ-RTC6BLW required.

3 Let Panasonic take care of indoor air quality

nanoeX

Thanks to the nanoe™ X properties, several types of pollutants can be inhibited such as certain types of bacteria, viruses, mould, allergens, pollen and certain hazardous substances. This unique technology is equipped to provide better air quality whether residential or commercial.

7 effects of nanoe™ X – Panasonic unique technology.

Deodorises	Capacity to inhibit 5 types of pollutants					Moisturises
Odours	Bacteria and viruses	Mould	Allergens	Pollen	Hazardous substances	Skin and hair

* Refer to https://aircon.panasonic.eu for more details and validation data.

4 Increasing the efficiency

The new PACi NX Series have improved seasonal efficiencies in both heating and cooling versus the previous generation.

	4 way cassette - PU3				Adaptive ducted - PF3			
	Elite		Standard		Elite		Standard	
kW	SEER/ηsc	SCOP/ηsh	SEER/ηsc	SCOP/ηsh	SEER/ηsc	SCOP/ηsh	SEER/ηsc	SCOP/ηsh
3,6	A+++	A+++	A++	A++	A++	A+	A+	A+
5,0	A++	A++	A++	A++	A++	A+	A++	A+
6,0	A++	A++	A++	A++	A++	A++	A++	A++
7,1	A++	A++	A++	A++	A++	A++	A++	A+
10,0	A++	A++	A++	A+	A++	A+	A++	A
12,5	304,3 %	186,0 %	267,0 %	157,0 %	281,7 %	170,0 %	257,4 %	142,6 %
14,0	286,6 %	181,2 %	257,0 %	152,2 %	275,9 %	171,0 %	252,2 %	140,6 %

* Energy label scale from A+++ to D for models below 12,0 kW (EU regulation 626/2011).
* ηsc / ηsh values for models above 12,0 kW (EN 14825).

New 4 way 90x90 cassette - PU3

· Always fresh and clean air with nanoe™ X and internal cleaning mode
· A modern flat panel design to blend into any space
· High seasonal efficiency, maximum SEER/SCOP = A+++/A+++
· Advanced comfort and energy saving by Econavi sensor

New adaptive ducted - PF3

· Better indoor air quality with nanoe™ X even with long ducts
· High flexibility with a complete new design which allows vertical or horizontal installation
· High seasonal performance in a slim body
· Super quiet operation, minimum 22 dB(A)

CONEX. New devices and apps

CONEX provides comfort and control for varying user needs. Accessible, flexible and scalable with different controllers and apps. Perfectly meeting requirements of modern controls for end user, installer and service. With nanoe™ X function, technology with the benefits of hydroxyl radicals.
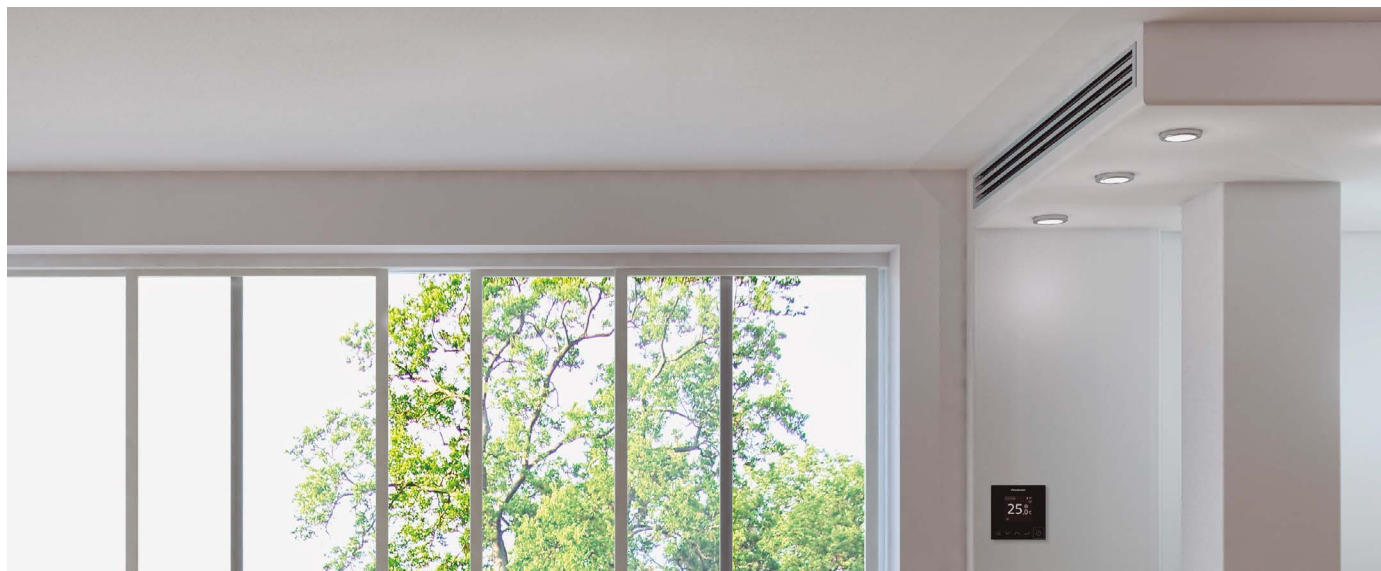
1 Intuitive control with stylish design
· Simple operation at a glance
· Clean face with full flat & black LCD display
· Compact body, only 86x86 mm

2 Control comfort with your smartphone
· Flexible control options with IoT integration
· New Panasonic H&C Control App for daily remote control operation
· Panasonic Comfort Cloud App for remote operation 24/7/365

3 Easy maintenance with service support app
· Quick and easy app set-up for system setting
· Panasonic H&C Diagnosis App enables the user to obtain detailed system operation data

* The use of apps depends on the remote controller model.

CONEX with IoT integration

The new wired remote controller series is fully integrated with IoT solutions developed by Panasonic. Detailed operation, maintenance setting and service operation are all possible with smartphone or tablet.

https://www.youtube.com/watch?v=_USzG_9f6bk&feature=youtu.be

PACi SYSTEMS

New service checker interface

Bluetooth®

Panasonic Service & Installer

End user

New wired remote controller

Bluetooth®   Wi-Fi

End user

IoT SOLUTIONS BY PANASONIC

New Panasonic H&C Diagnosis App [1]. Service checker function (detailed operation data etc...).

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Model	CZ-RTC6	CZ-RTC6BL	CZ-RTC6BLW
Wired connection compatible with	PACi, PACi NX, ECOi, GHP	PACi, PACi NX, ECOi, GHP	PACi NX only
Wireless functions	No wireless capability	Bluetooth®	Bluetooth® + Wi-Fi
App compatibility			
Panasonic Comfort Cloud App	—	—	✔
Panasonic H&C Control App	—	✔ PACi, PACi NX, ECOi, GHP	✔ PACi NX only
Panasonic H&C Diagnosis App	—	✔ PACi NX only*	✔ PACi NX only*
Outdoor unit settings (remote controller connected to indoor unit)	✔ PACi NX only*	✔ PACi NX only*	✔ PACi NX only*

* When connected to PACi NX indoor and outdoor unit combination.

Commercial Wi-Fi Adaptor

Panasonic CZ-CAPWFC1 interface adaptor, allows connection of one or a group of indoor units to Panasonic Comfort Cloud App, which provides control, monitoring, scheduling and error alerts.
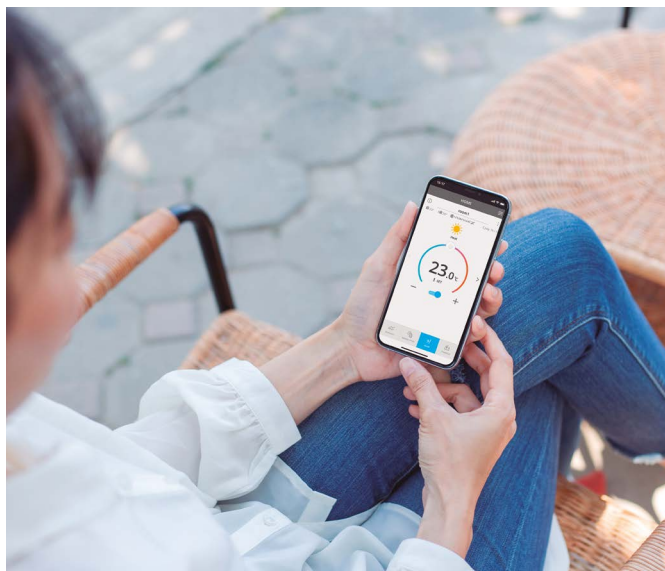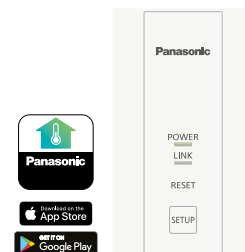
Advanced smartphone control

Control PACi, ECOi and ECO G units with your smartphone from wherever and whenever you are, by using Panasonic Comfort Cloud App and Commercial Wi-Fi Adaptor. This scalable solution is ideal for one system, one site or multiple locations. Coupling the adapter with the already feature rich systems, makes it an ideal solution for residential and commercial applications.

Cloud control is available for all indoor units with P-link

Compatible indoor units type: Model code starting with "S-" (excludes S-80/125MW1E5).
Incompatible indoor units type: Model code starting with "PAW-", "FY-" and S-80/125MW1E5.

1 From 1 to 200 units
User can control up to 10 different sites, with up to 20 units / groups per site. Additionally, one adaptor can be connected to 1 indoor or to a group of maxium 8 indoors.

2 Voice control compatible
When registering the unit to Panasonic Comfort Cloud App it makes compatible with most popular voice assistants.

3 Multi user
The Panasonic Comfort Cloud App allows multi-user access control. Restrict user access to specific units.

4 Easy scheduling
Complex weekly scheduling made simple. Not only for one unit, but across multiple sites and from a smartphone.

5 Energy monitor
See the estimated power consumption and compare with other periods, to see how energy consumption can be reduced even more. Check list of units that provides consumption*.

* Function available depending on the model.

6 Error codes
Error code notification through the App, provides early notification and allows for faster repair.

Connection Diagram

Commercial Wi-Fi Adaptor wiring length is 1,9 m and connects to indoor unit thru T10 connector and R1/R2 terminal connectors.

RC Terminal (R1,R2)

T10 CNT

Communication line: 1,9 m

Wireless LAN

Download free app:

Other hardware requirements: Router and Internet (purchase and subscribe separately).

Panasonic Comfort Cloud App.

Input Voltage	DC 12 V (supplied from T10 connector)
Power Consumption	Maximum 2,4 W
Size (H x W x D)	120 x 70 x 25 mm
Weight	190 g (including communications lines)
Interface	1 x Wireless LAN
Wireless LAN Standard	IEEE 802,11 b/g/n
Frequency Range	2,4 GHz band
Operation range	0 ~ 55 °C, 20 ~ 80 RH%
Connectable indoor unit	1 unit
Length of communication line	1,9 m (included in the shipment)

Bringing nature's balance indoors

nanoe™ X, technology with the benefits of hydroxyl radicals.

Abundant in nature, hydroxyl radicals (also known as OH radicals) have the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise. nanoe™ X technology can bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner and pleasant place to be.

Panasonic's nanoe™ X technology takes this a step further and brings nature's detergent – hydroxyl radicals – indoors to help create an ideal environment

Thanks to the nanoe™ X properties, several types of pollutants can be inhibited such as certain types of bacteria, viruses, mould, allergens, pollen and certain hazardous substances.
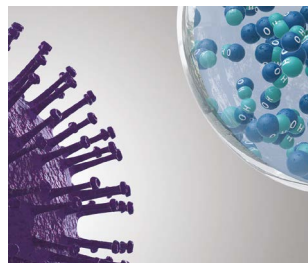
1 | nanoe™ X reliably reaches pollutants.
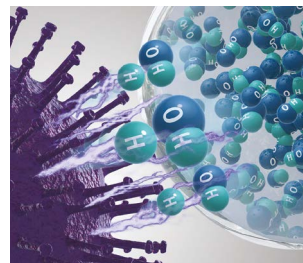
2 | Hydroxyl radicals denature pollutants' proteins.
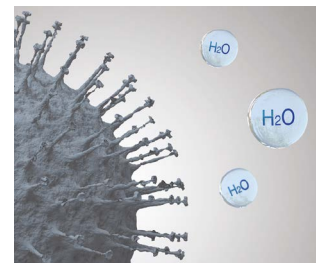
3 | Pollutants activity is inhibited.

What is unique about nanoe™ X?

Effective on fabrics and surfaces.

Longer lifespan.

Huge quantity.

Maintenance-free.

The image shows nanoe X Generator Mark 2.
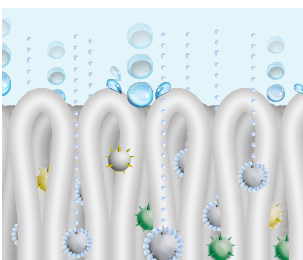
1 | At one billionth of a metre, nanoe™ X is much smaller than steam and can deeply penetrate cloth fabrics to deodorise.

2 | Contained in tiny water particles, nanoe™ X has a longer lifespan to spread easily around the room.

3 | nanoe X Generator Mark 2 produces 9,6 trillion hydroxyl radicals per second. Greater amounts of hydroxyl radicals contained in nanoe™ X lead to higher performance on inhibition of pollutants.

4 | No maintenance, no replacement required. nanoe™ X is a filter free solution that does not require maintenance, as its atomisation electrode is enveloped with water during its generation process and it is made with Titatium.

7 effects of nanoe™ X – Panasonic unique technology

Deodorises	Capacity to inhibit 5 types of pollutants	Moisturises

Odours	Bacteria and viruses	Mould	Allergens	Pollen	Hazardous substances	Skin and hair

* Refer to https://aircon.panasonic.eu for more details and validation data.

nanoe™ X, internationally-validated technology in testing facilities

The effectiveness of nanoe™ X technology has been tested by 3rd party laboratories in Germany, France, Denmark, Malaysia and Japan.

The nanoe™ X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect. nanoe™ X is not medical device, local regulations on building design and sanitary recommendations must be followed.

Test results conducted under controlled laboratory conditions. Performance of nanoe™ X might differ in real life environment.

		Tested contents	Result	Capacity	Time	Testing organisation	Report No.
Airborne	Virus	Bacteriophage ΦX174	99,7 % inhibited	Approx. 25 m³	6 h	Kitasato Research Center for Environmental Science	24_0300_1
	Bacteria	Staphylococcus aureus	99,9 % inhibited	Approx. 25 m³	4 h	Kitasato Research Center for Environmental Science	2016_0279
Adhered	Virus	SARS-CoV-2	91,4 % inhibited	6,7 m³	8 h	Texcell (France)	1140-01 C3
		SARS-CoV-2	99,9 % inhibited	45 L	2 h	Texcell (France)	1140-01 A1
		Xenotropic murine leukemia virus	99,999 % inhibited	45 L	6 h	Charles River Biopharmaceutical Services GmbH	—
		Influenza (H1N1 subtype)	99,9 % inhibited	1 m³	2 h	Kitasato Research Center for Environmental Science	21_0084_1
		Bacteriophage ΦX174	99,80% inhibited	25 m³	8 h	Japan Food Research Laboratories	13001265005-01
	Bacteria	Staphylococcus aureus	99,9 % inhibited	20 m³	8 h	Danish Technological Institute	868988
	Pollen	Ambrosia pollen	99,4 % inhibited	20 m³	8 h	Danish Technological Institute	868988
	Odours	Cigarette smoke odour	Odour intensity reduced by 2,4 levels	Approx. 23 m³	0,2 h	Panasonic Product Analysis Center	4AA33-160615-N04

First nanoe™ device was developed by Panasonic in 2003

Generator	nanoe™	nanoe™ X	
	2003	Mark 1 - 2016	Mark 2 - 2019
	480 billion hydroxyl radicals/sec	4,8 trillion hydroxyl radicals/sec	9,6 trillion hydroxyl radicals/sec
Ion particle structure	Hydroxyl Radicals	10x times	20x times

nanoe™ X: improving protection 24/7
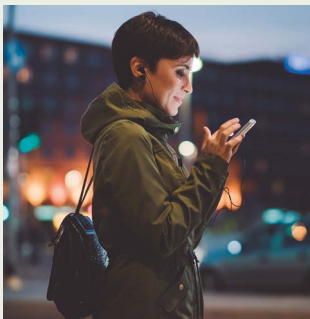
Acts to clean your air, so that the indoor environment can be a cleaner and pleasant place to be all day long. nanoe™ X works together with heating or cooling function when the during the day and can work independently when the area is not occupied.
Give the air conditioning the strength to increase the protection of your indoor spaces with nanoe™ X technology and convenient control via the Panasonic Comfort Cloud App.

Cleans the air when you are away.
Leave the nanoe™ mode ON to inhibit certain pollutants and deodorise before you return home.

Improves your environment when you are at home.
Enjoy a cleaner, comfortable space with loved ones.

Panasonic Heating & Cooling Solutions is incorporating nanoe™ technology in a wide range of equipment

Wall-mounted.
Built-in nanoe X Generator Mark 2.

Ceiling.
Built-in nanoe X Generator Mark 2.

4 Way 90x90 cassette.
Built-in nanoe X Generator Mark 1.

Adaptive ducted unit.
Built-in nanoe X Generator Mark 2.

New 4 way 90x90 cassette – PU3

These cassettes offer upgraded nanoe™ X and Econavi technologies to make the room air more comfortable and healthy and to increase the energy efficiency.

nanoe X

NEW 2021

1 **Improved indoor air quality with nanoe™ X and fresh air intake**
· nanoe™ X technology equipped as standard for improved indoor air quality
· Internal cleaning function for the unit with nanoe™ X
· High external fresh air intake volume with optional kit (CZ-FDU3 + CZ-ATU2)

2 **Superior energy efficiency and comfort**
· High seasonal efficiency both in heating and cooling, maximum SEER/SCOP = A+++/ A+++
· Econavi: Intelligent sensors to increase energy savings and comfort
· Super quiet operation down to 27 dB(A)

3 **Easy installation**
· Light weight, easy piping and integrated drain pump for quick installation
· New wired remote controller CZ-RTC6BL allows easy system setting via Bluetooth®

Always fresh and clean air with nanoe™ X

The 4 way 90x90 cassette with nanoe™ X, when tested, has shown to inhibit hazardous substances by 92 %, when compared to natural reduction*.
In addition to the 7 effects of nanoe™ X, the indoor unit can also be cleaned with a short operation of nanoe™ X + dry mode.

* Controllers (CZ-RTC5B or CZ-RTC6/BL/BLW) are required.

After cooling/drying operation, the inside of the indoor unit is automatically dried and nanoe™ X is activated to suppress mould growth and to reduce odour.
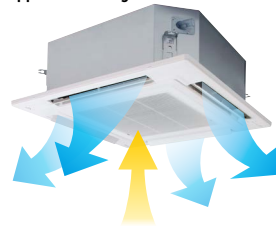
Operates the fan to discharge internal humidity.
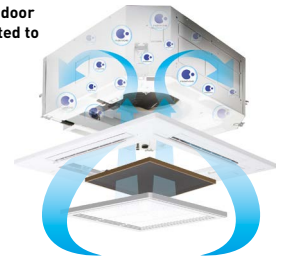
Operate the fan to circulate nanoe™ X internally.

nanoe™ X effect against odour proven in large space

92 % of hexadecane[2] is inhibited after 8-hours exposure in room side 267 m².

Hexadecane inhabitation ratio.

%
100
80
60
40
20
0

14%

Initial

Natural reduction

Initial

**92 %
inhibited**

With

• nanoeX

8 hours later
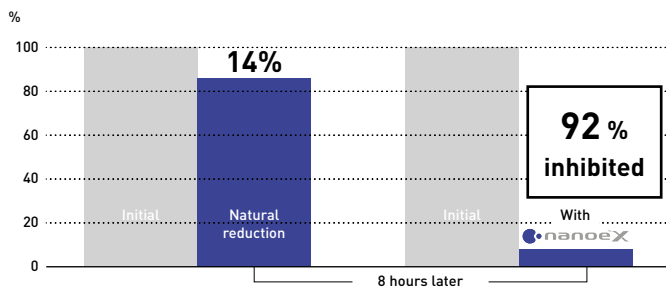
Test ambient.

3rd party certification organization SIRIM[3] conducted the performance experiment of 4 way cassette equipped with nanoe X Generator Mark 1 device in inhibiting hexadecane, a chemical contaminant.

2) Hexadecane is a hazardous substance contained in gasoline and diesel exhaust gas, and considered to be one cause of oil odour. 3) SIRIM Berhad (SIRIM),a premier industrial research and technology organization in Malaysia, wholly-owned by the Ministry of Finance Incorporated.

Hexadecane

4 way cassette

3 m

16,4 m

16,3 m

267 m²
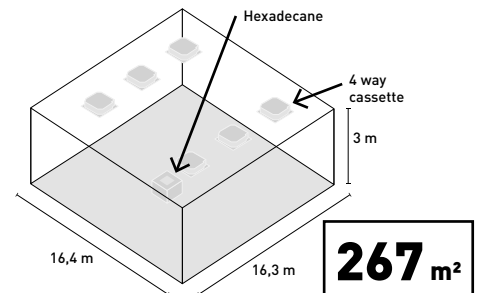
Optional Econavi intelligent sensor

Human activity sensor and floor temperature sensor can reduce waste energy, by optimising air conditioner operation.

Area detected by movemet sensor

Max. 5,0 m

Area detected by floor temperature sensor

1,0m

7 ~ 9m
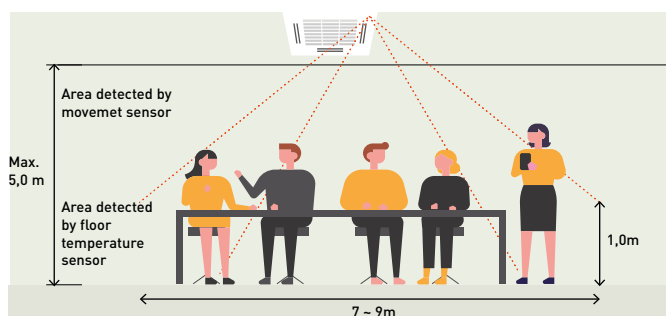
Advanced Econavi functions.

INTELLIGENT ECO SENSORS
ECONAVI

2 sensors (movement and floor temperature) can provide a reduction in wasted energy by means of effective control. The floor temperature can be detected with a ceiling height of 5 m.

Econavi exclusive panel. Optional (CZ-KPU3AW)

Floor temperature sensor.
This sensor detects average floor temperature and operates circulation if floor temperature is low.

Movement sensor.
This sensor detects the amount of human activity, and operates effectively.

Wired remote controller CZ-RTC5B or CZ-RTC6/BL/BLW is required.

New adaptive ducted unit – PF3

New adaptive ducted – PF3 has been completely re-designed to provide better flexibility. The vertical installation is newly available with powerful external static pressure (maximum 150 Pa).

nanoe**X**

NEW
2021

https://www.youtube.com/watch?v=LBiRrsOaqXo

1 **Highly flexible installation**
2 installation possibilities (horizontal / vertical).

2 **High seasonal performance with slim body**
Maximum SEER/SCOP: A++/A++.

3 **Comfort operation**
Super quiet operation, minimum 22 dB(A)*.

* 3,6 kW model and when operating with external static pressure 50 Pa in low fan mode.

2 installation possibilities (horizontal / vertical)

Vertical installation is newly available.
External static pressure 150 Pa, sufficient for remotely installing units away from the rooms.

Improved drain pan design

Just one drain pan for both horizontal and vertical installations. No need to modify the unit.

Horizontal
Shared drain pan
Vertical
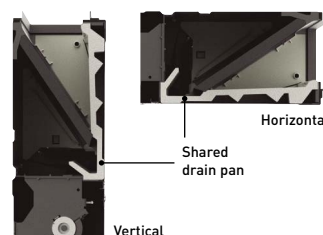
Selectable inlet air position

Inlet air position may be adjusted by means of a removable panel, to allow rear or bottom entry, depending on the duct installation.

or
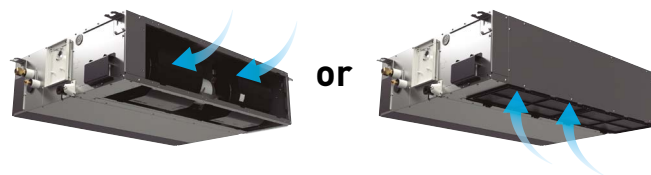
Maximum efficiency

	kW	3,6	5,0	6,0	7,1	10,0
Elite	SEER	A++	A++	A++	A++	A++
	SCOP	A+	A+	A++	A++	A+
Standard	SEER	—	—	A++	A++	A++
	SCOP	—	—	A++	A+	A

	12,5	14,0
ηsc	281,7%	275,9%
ηsh	170,0%	171,0%
ηsc	257,4%	252,2%
ηsh	142,6%	140,6%

Compact body

· Only 250 mm high
· Light units from 25 to 39 kg

Conventional model	New adaptive ducted
33 kg	**30 kg**
290 mm	**250 mm**

New adaptive ducted

250 mm

Better indoor air quality with nanoe™ X

The performance of nanoe™ X technology is maintained, even with 10 m long ducts*.
The effect of improved air quality is sufficient to allow for numerous duct shapes to fit the application.

* Panasonic internal survey.

10 m
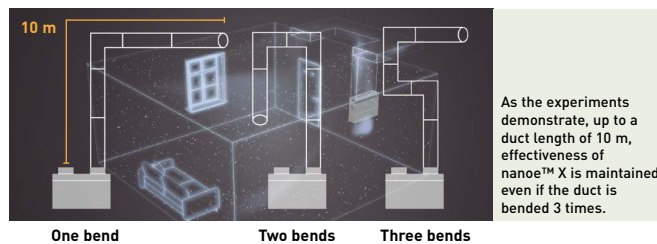
As the experiments demonstrate, up to a duct length of 10 m, effectiveness of nanoe™ X is maintained even if the duct is bended 3 times.

One bend   Two bends   Three bends

nanoe™ X effect against odour proven in large space

In a room of 139 m², tobacco odour is reduced by a factor of 0,7 when compared to natural reduction over a period of 2 hours.

Tobacco deodorisation ratio.

Natural reduction

nanoe™ X reduced by 0,7 rank

Odour level / Time (hour)
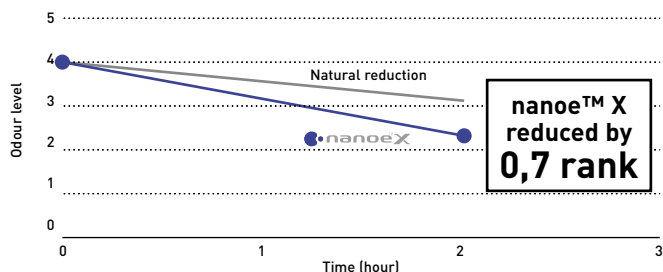
Test ambient.

3rd party international testing institute KAKEN[1] conducted the performance experiment of Adaptive ducted equipped with nanoe X Generator Mark 2 device removing tobacco odour.

1) KAKEN TEST CENTER General Incorporated Foundation in Japan, international testing institute.

Ducted unit
Adhered odour
2,7 m
20 m
7 m

139 m²

153
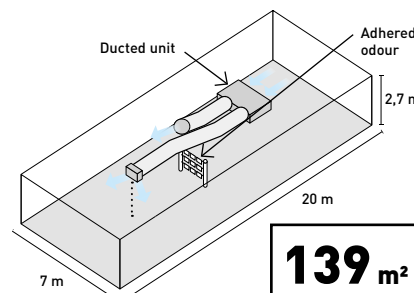
PACi NX: Excellent SEER and SCOP values

High operating efficiency using DC inverter compressor, DC motor and a heat exchanger design.

PACi NX R32 seasonal efficiency for daily energy saving

SEER / SCOP

Chart values:
- SEER PACi NX Elite: 3,6 kW: 8,9 | 5,0 kW: 8,6 | 6,0 kW: 8,0 | 7,1 kW: 7,7 | 10,0 kW: 7,8 | 12,5 kW: 7,8 | 14,0 kW: 7,4
- SEER PACi NX Standard: 8,1 | 8,0 | 7,8 | (6,9) | (6,7) | (6,7) | 6,6
- SCOP PACi NX Elite: 3,6 kW: 5,1 | 5,0 kW: 4,9 | 6,0 kW: 4,8 | 7,1 kW: 4,8 | 10,0 kW: 4,9 | 12,5 kW: 4,8 | 14,0 kW: 4,7
- SCOP PACi NX Standard: (4,8) | (4,8) | (4,7) | (4,6) | (4,2) | 4,0 | 3,9

* 4 way 90x90 cassette.

SEER PACi NX Elite   SEER PACi NX Standard   SCOP PACi NX Elite   SCOP PACi NX Standard
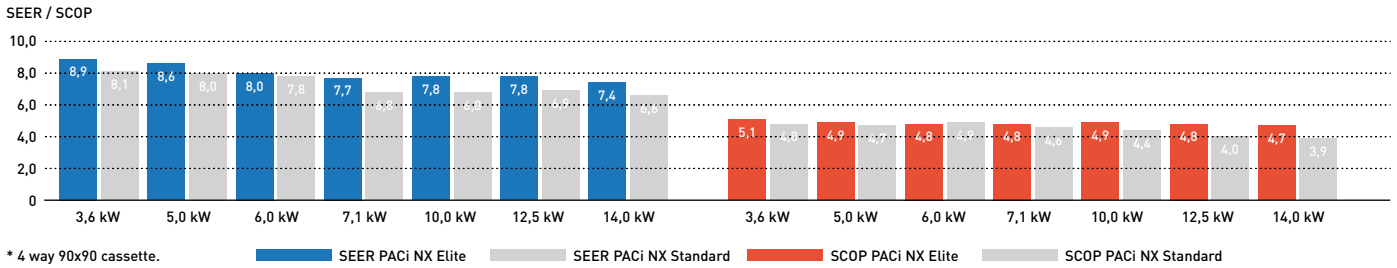
Increased piping length for greater design flexibility

Adaptable to various building types and sizes. Maximum piping length: 85 m (10,0, 12,5, 14,0 kW). 50 m (7,1 kW).

Maximum height difference between outdoor unit and indoor unit:
30 m*

Maximum total pipe length:
85 m

* 15 m if the outdoor unit is below the indoor unit.
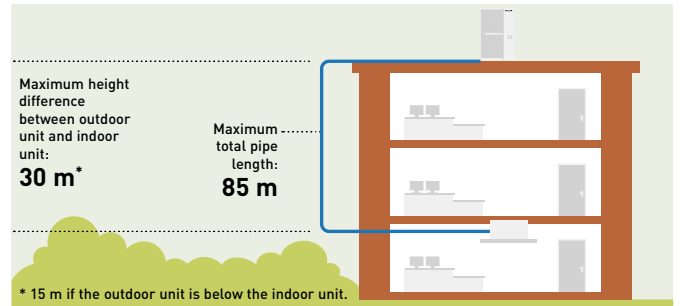
PACi NX Elite design operation conditions

PACi NX elite series are capable of working even in the most difficult ambient conditions. Cooling operation is possible when outdoor temperature is as low as -20 °C[1] or as high as 48 °C[2]. Heating operation can also be utilized at outdoor temperatures down to -20 °C when outdoor temperature is as low as -20 °C.

1) It is possible to operate at -20 °C only computer rooms with the piping length of 30 m or less.
2) Please check technical tables for further details on operating temperature.

Cooling design operation conditions

48 °C

-20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50

Heating design operation conditions

-20 °C

-25 -20 -15 -10 -5 0 5 10 15 20 25
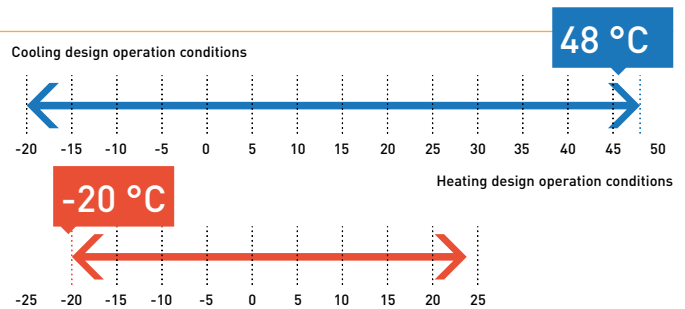
Compact & Flexible-design

The slim and lightweight design means the PACi outdoor unit can be installed in a number of compact situations. As the unit only weighs 99kg, it is easy to carry and easy to install.

Single Split   PACi
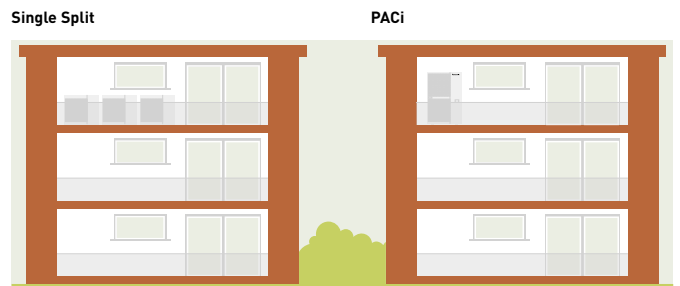
Energy consumption monitoring display with the CZ-RTC5B

Power consumption 20:30 (THU)
Select consumption interval
1 day
1 week
1 year
Sel. [↵]Confirm

Menu selection: 3 types (Day/Week/Year)of display are available.

Consump. (1 day) 20:30 (THU)
9 kWh
2 4 6 8 10 12 14 16 18 20 22 24 h
YD: 61.2 kWh ■ TD: 49.2 kWh
[↰]Back   Approx power consumption

Daily Energy consumption: Data is shown with Yesterday's record.(Graph starts from 0 o'clock to 24 o'clock only.)

Consump. (1 week) 20:30 (THU)
110 kWh
[1week] THU FRI SAT SUN MON TUE WED Today
THU, DEC. 27   49.2 kWh
◀▶Day   Approx power consumption

Weekly Energy consumption: Power consumption of each day of the week can be checked.

Consump. (1 year) 20:30 (THU)
6000 kWh
[1year] 12 1 1 2 3 4 5 6 7 8 9 10 11 [1Min]
DEC. 2018   4481 kWh
◀▶Month   Approx power consumption

Annual Energy consumption: Power consumption of each month can be checked.

datanavi

Datanavi, a new way to connect.
Simple and easy support tool with your smartphone.

PACi

Panasonic unique Light ID technology

Panasonic Cloud Server

User

· Scan & Save AC system info
· Easy access to manual database
· Commissioning, F gas check data history

Demand response compliant (CZ-CAPDC3) as a standard function for 20,0 - 25,0 kW outdoor units

This terminal allows demand control of the outdoor unit.
Several setting levels are available:
· Level-1, 2, 3: 75 / 50 / 0 %
· Level-1, 2 can be set in 40 - 100 % (40, 45, 50...95, 100: each 5 %)
CZ-CAPDC3 also allows for forced stop which can be used for fire-alarm connection on LV3.

Demand controller

Terminal block (supplied as optional kit)
CZ-CAPDC3
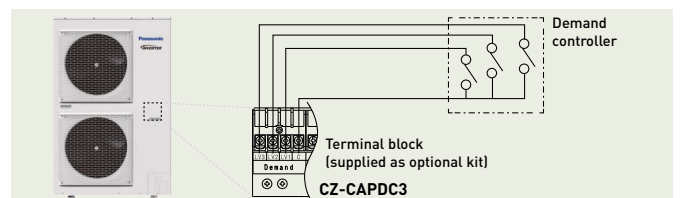
Solutions for 24/7/365 applications

High efficiency products for 24/7 applications.
Panasonic has developed a complete range of solutions for server rooms
which efficiently protect your servers, keeping them at an appropriate
temperature even when the outdoor temperature is below -20 °C.

NON STOP
OPERATION
24/7
365

High efficiency all the year

Key points:
- From 2,5 to 7,1 kW with TKEA R32 refrigerant units A+++ in cooling
- PACi units from 3,6 to 14,0 kW
- Backup function
- Redundancy function
- Alternative run function
- Error information by Dry Contact
- Operation even at -20 °C outdoor temperature
- High seasonal performance
- Product design for 24/7 operation

SEER / SCOP

	2,5 kW	3,5 kW	4,2 kW	5,0 kW	3,6 kW	5,0 kW	6,0 kW	7,1 kW
SEER	8,5	8,5	8,5	8,5	8,9	8,6	8,0	7,7
SCOP	4,5	4,4	4,3	4,4	5,1	4,9	4,8	4,8

TKEA / 4 way 90x90 cassette PACi Elite

■ SEER ■ SCOP
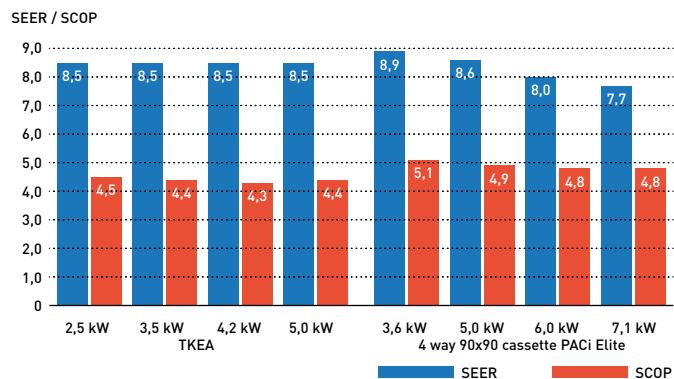
Interface to run 2 TKEA. PAW-SERVER-PKEA

The PAW-SERVER-PKEA server room interface manages redundancy and backup of two TKEA units with two different selectable modes:
- Plug and play by embedded redundancy and backup algorithm (no external signal needed. Further details please refer to operation manual)
- External (third party PLC) redundancy and backup management by Dry Contact

All settings are possible without the need for a computer connection.

A special Energy Saving Mode is selectable by deep switch (available only in plug and play mode). The level of remote control input prohibition can be set when external management is by Dry Contact.

A | B

Cable maximum length 3 meters each CN-CNT

Output Alarm Signal A unit B unit (2xDry Contact maximum 12V)

Input ON/OFF Signal A unit B unit (2xDry Contact maximum 12V)

PAW-SERVER-PKEA

Output Run Signal A unit B unit (2xDry Contact maximum 12V)

Input PCB Special Settings 1xConnection port to PC

Jumper 1) Energy Saving Function

Jumper 2) Enable ON OFF Dry Contact (maximum 12V)

Standard remote control

Interfaces to run 2 or 3 PACi and VRF indoor units

PAW-PACR3.

In combination with one PAW-T10 on each indoor unit, allows the redundant operation of 2 (or 3) PACi or VRF indoor units.

All units will be operated sequentially in order to achieve the same operating time (example turn every 8 hours within a 24 hour period).

If the room temperature exceeds a freely set value, the 2nd (or 3rd) unit will be switched ON and an alarm will be activated.

T10 | T10 | T10

PAW-PACR3

Alarm contact | Room thermostat | External contacts

Display and Settings:
- Possible to select next unit manually
- Possible to reset operation

- LED display shows operation status of the 2 or 3 units
- Operation status output
- Alarm LED and alarm output
- Temperature limit can be set

- Temperature hysteresis can be set
- Room temperature is displayed
- Time counter displayed

Backup control by using CZ-RTC5B.

Group wiring of 2 systems of PACi can do auto individual control.
- Rotation operation
- Backup operation
- Support operation

System 1 | **CZ-RTC5B** | System 2
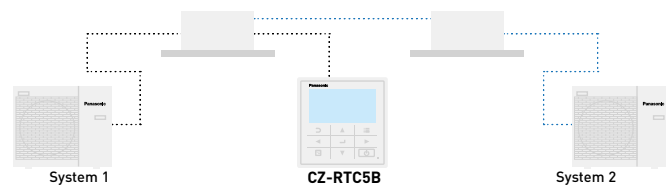
CZ-CAPRA1.

RAC interface adapter for integration into P-Link.

Integrates any unit in big system control:
- TKEA server room integration
- Small offices with domestic indoors
- Tender for refurbishment (old system Domestic and VRF in one installation)

Current control area

Need to control RAC by central controllers

CZ-CAPRA1

Current system for PACi / VRF. Central controller can connect to P-Link line to control units directly.

RAC units cannot connect directly to P-Link to be managed by Central Controllers.

It's necessary to have interface between P-Link and RAC protocol to cover basic operating items.
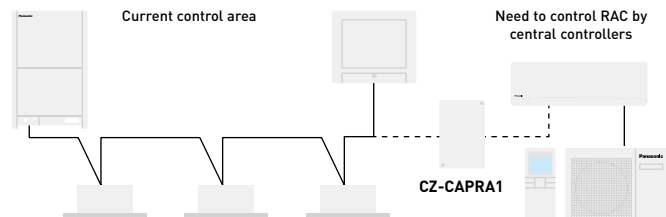
Centralized Control Systems: 64 indoor units	Intelligent controller / Web Server: 256 indoor units	P-AIMS: 1024 indoor units

Basic operation items: ON/OFF, Mode select, Temperature setting, Fan speed, Flap setting, Remote control prohibit.
External input: ON/OFF control signal, Abnormal stop signal.
External output for Relay 1): Operation status (ON/OFF), Alarm status output.
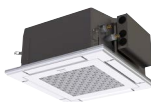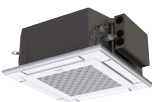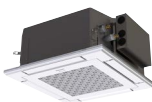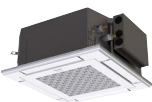
1) Because current CN-CNT connector can not provide the power for external output relay, additional Input power for external relay is necessary.

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R32

NEW 2021

Commercial units range

Page	Indoor units	2,5 kW	3,6 kW	4,5 kW [1]	5,0 kW	6,0 kW
P. 160	NEW wall-mounted Inverter+ • R32		S-3650PK3E	S-3650PK3E	S-3650PK3E	S-6010PK3E
P. 164	NEW 4 way 60x60 cassette Inverter+ • R32 [2]	S-25PY3E	S-36PY3E		S-50PY3E	S-60PY3E
P. 166	NEW 4 way 90x90 cassette Inverter+ • R32		S-3650PU3E	S-3650PU3E	S-3650PU3E	S-6071PU3E
P. 170	NEW ceiling Inverter+ • R32		S-3650PT3E	S-3650PT3E	S-3650PT3E	S-6071PT3E
P. 174	NEW adaptive ducted Inverter+ • R32		S-3650PF3E	S-3650PF3E	S-3650PF3E	S-6071PF3E
P. 178	High static pressure hide-away 20-25 kW Inverter+ • R32					
P. 180	4 Way 60x60 cassette Inverter+ • R32		S-36PY2E5B	S-45PY2E5B	S-50PY2E5B	

Outdoor units	2,5 kW	3,6 kW	5,0 kW	6,0 kW
PACi NX Elite • R32		U-36PZH3E5 / U-36PZH2E5 [3]	U-50PZH3E5 / U-50PZH2E5 [3]	U-60PZH3E5
PACi NX Standard • R32	U-25PZ3E5	U-36PZ3E5	U-50PZ3E5	U-60PZ3E5A

1) The 4,5 kW indoor capacity options are only available only for twin, triple and double-twin combinations. * U-__E5 Single phase / U-__E8 Three phase. 2) Available in Autumn 2021. 3) PZH2 models only for PY2 models.

7,1 kW	10,0 kW	12,5 kW	14,0 kW	20,0 kW	25,0 kW
S-6010PK3E	S-6010PK3E				
S-6071PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E		
S-6071PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E		
S-6071PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E		
				S-200PE3E5B	S-250PE3E5B

7,1 kW	10,0 kW	12,5 kW	14,0 kW	20,0 kW	25,0 kW
U-71PZH3E5 / U-71PZH3E8	U-100PZH3E5 / U-100PZH3E8	U-125PZH3E5 / U-125PZH3E8	U-140PZH3E5 / U-140PZH3E8	U-200PZH2E8	U-250PZH2E8
U-71PZ3E5A	U-100PZ3E5 / U-100PZ3E8	U-125PZ3E5 / U-125PZ3E8	U-140PZ3E5 / U-140PZ3E8		

NEW 2021

nanoe X

nanoe™ X as a standard.

NEW PACi NX Series Elite wall-mounted Inverter+ • R32

The wall-mounted units with stylish matt color can be offered for many applications such as studios, gyms, high ceiling areas and even computer server rooms.
The compact design and flat face ensure discreet installation, even in a small space.

			Single phase				
			3,6 kW	**5,0 kW**	**6,0 kW**	**7,1 kW**	**10,0 kW**
Kit			**KIT-36PK3ZH5**	**KIT-50PK3ZH5**	**KIT-60PK3ZH5**	**KIT-71PK3ZH5**	**KIT-100PK3ZH5**
Remote controller			**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**
Cooling capacity	Nominal (Min - Max)	kW	3,6 (1,2 - 4,0)	5,0 (1,2 - 5,6)	6,1 (1,2 - 7,1)	7,1 (2,2 - 9,0)	9,5 (3,1 - 10,5)
EER [1]	Nominal (Min - Max)	W/W	4,93 (5,45 - 4,49)	4,24 (5,45 - 3,61)	3,86 (5,45 - 3,02)	3,50 (5,79 - 2,69)	3,26 (5,34 - 3,09)
SEER [2]			**8,4 A++**	**8,0 A++**	**7,2 A++**	**6,8 A++**	**6,4 A++**
Pdesign		kW	3,6	5,0	6,1	7,1	9,5
Input power cooling	Nominal (Min - Max)	kW	0,73 (0,22 - 8,90)	1,18 (0,22 - 1,55)	1,58 (0,22 - 2,35)	2,03 (0,38 - 3,35)	2,91 (0,58 - 3,40)
Annual energy consumption [3]		kWh/a	150	219	297	365	520
Heating capacity	Nominal (Min - Max)	kW	4,0 (1,2 - 5,0)	5,6 (1,2 - 6,5)	7,0 (1,2 - 8,0)	8,0 (2,0 - 9,0)	9,5 (3,1 - 11,5)
COP [1]	Nominal (Min - Max)	W/W	4,82 (5,45 - 4,17)	4,15 (5,45 - 3,55)	4,19 (5,45 - 3,40)	4,00 (5,56 - 3,16)	3,97 (5,54 - 3,43)
SCOP [2]			**4,9 A++**	**4,7 A++**	**4,8 A++**	**4,7 A++**	**4,1 A+**
Pdesign at -10 °C		kW	3,6	4,5	4,6	5,2	8,0
Input power heating	Nominal (Min - Max)	kW	0,83 (0,22 - 1,20)	1,35 (0,22 - 1,83)	1,67 (0,22 - 2,35)	2,00 (0,36 - 2,85)	2,39 (0,56 - 3,35)
Annual energy consumption [3]		kWh/a	1029	1341	1342	1549	2732
Indoor unit			**S-3650PK3E**	**S-3650PK3E**	**S-6010PK3E**	**S-6010PK3E**	**S-6010PK3E**
Air flow	Hi / Med / Lo	m³/min	13,0 / 11,0 / 9,0	16,0 / 13,5 / 11,0	20,0 / 17,5 / 14,5	20,0 / 17,5 / 14,5	22,0 / 18,5 / 15,0
Moisture removal volume		L/h	0,9	1,8	2,0	3,0	4,8
Sound pressure [4]	Hi / Med / Lo	dB(A)	35 / 31 / 27	40 / 36 / 32	47 / 44 / 40	47 / 44 / 40	49 / 45 / 41
Sound power	Hi / Med / Lo	dB(A)	51 / 47 / 43	56 / 52 / 48	63 / 60 / 56	63 / 60 / 56	65 / 61 / 57
Dimension	H x W x D	mm	302 x 1120 x 236	302 x 1120 x 236	302 x 1120 x 236	302 x 1120 x 236	302 x 1120 x 236
Net weight		kg	13	13	14	14	14
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit			**U-36PZH3E5**	**U-50PZH3E5**	**U-60PZH3E5**	**U-71PZH3E5**	**U-100PZH3E5**
Power source		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	A	3,60 - 3,45 - 3,30	5,60 - 5,35 - 5,10	7,40 - 7,10 - 6,80	10,0 - 9,60 - 9,20	14,40 - 13,80 - 13,20
	Heat	A	4,05 - 3,90 - ,3,70	6,40 - 6,10 - 5,85	7,75 - 7,40 - 7,10	9,65 - 9,35 - 8,95	11,70 - 11,30 - 10,80
Air flow	Cool / Heat	m³/min	34,1 / 36,4	42,0 / 42,0	42,0 / 42,0	61,0 / 60,0	118,0 / 108,0
Sound pressure	Cool / Heat (Hi)	dB(A)	43 / 44	46 / 48	47 / 50	48 / 50	52 / 52
Sound power	Cool / Heat (Hi)	dB(A)	62 / 64	64 / 67	65 / 69	65 / 67	69 / 69
Dimension	H x W x D	mm	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320	996 x 940 x 340	1416 x 940 x 340
Net weight		kg	42	42	43	65	98
Pipe diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) [5]	3/8 (9,52)	3/8 (9,52)
	Gas pipe	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) [6]	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	3 ~ 40	3 ~ 40	3 ~ 40	5 ~ 50	5 ~ 85
Elevation difference (in/out) [7]		m	15 / 30 [8]	15 / 30 [8]	15 / 30 [8]	15 / 30 [8]	15 / 30 [8]
Pipe length for additional gas		m	30	30	30	30	30
Additional gas amount		g/m	15	15	15	45	45
Refrigerant (R32) / CO_2 Eq.		kg / T	1,13 / 0,76	1,13 / 0,76	1,15 / 0,78	1,95 / 1,32	3,05 / 2,06
Operating range	Cool Min ~ Max	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +48	-20 ~ +48 [9]
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24

Technical focus

· Modern design with flat face and compact size
· DC fan for better efficiency and control
· Six directional piping outlet
· nanoe™ X (Generator Mark 2= 9,6 trillion hydroxyl radicals/sec) as standard for better indoor air quality
· Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®
· Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

Closed discharge port

When the unit is turned OFF, the flap closes completely to prevent dust getting into the unit and to keep the equipment clean.

Quiet operation

These units are among the quietest in the industry, making them ideal for hotels and hospitals.

Piping outlet in six directions

Piping outlet is possible in the six directions of right, right rear, right bottom, left, left rear and left bottom, making the installation work easier.

CZ-RTC5B

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

CONEX

Optional controller. CONEX wired remote controller.
CZ-RTC6 - CZ-RTC6BL - CZ-RTC6BLW

Optional controller. Infrared remote controller.
CZ-RWS3

Optional Econavi sensor.
CZ-CENSC1

			Three phase	
			7,1 kW	**10,0 kW**
Kit			KIT-71PK3ZH8	KIT-100PK3ZH8
Remote controller			CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	7,1 (2,2 - 9,0)	9,5 (3,1 - 10,5)
EER [1]		W/W	3,50	3,26
SEER [2]			**6,7 A++**	**6,3 A++**
Pdesign		kW	7,1	9,5
Input power cooling		kW	2,03	2,91
Annual energy consumption [3]		kWh/a	370	526
Heating capacity	Nominal (Min - Max)	kW	8,0 (2,0 - 9,0)	9,5 (3,1 - 11,5)
COP [1]		W/W	4,00	3,97
SCOP [2]			**4,7 A++**	**4,1 A+**
Pdesign at -10 °C		kW	5,2	8,0
Input power heating		kW	2,00	2,39
Annual energy consumption [3]		kWh/a	1549	2732
Indoor unit			**S-6010PK3E**	**S-6010PK3E**
Air flow	Hi / Med / Lo	m³/min	20,0 / 17,5 / 14,5	22,0 / 18,5 / 15,0
Moisture removal volume		L/h	3,0	4,8
Sound pressure [4]	Hi / Med / Lo	dB(A)	47 / 44 / 40	49 / 45 / 41
Sound power	Hi / Med / Lo	dB(A)	63 / 60 / 56	65 / 61 / 57
Dimension	H x W x D	mm	302 x 1120 x 236	302 x 1120 x 236
Net weight		kg	14	14
nanoe X Generator			Mark 2	Mark 2
Outdoor unit			**U-71PZH3E8**	**U-100PZH3E8**
Power source		V	380 - 400 - 415	380 - 400 - 415
Current	Cool	A	3,40 - 3,25 - 3,15	4,85 - 4,60 - 4,40
	Heat	A	3,30 - 3,15 - 3,05	4,00 - 3,80 - 3,60
Air flow	Cool / Heat	m³/min	61,0 / 60,0	118,0 / 108,0
Sound pressure	Cool / Heat (Hi)	dB(A)	48 / 50	52 / 52
Sound power	Cool / Heat (Hi)	dB(A)	65 / 67	69 / 69
Dimension	H x W x D	mm	996 x 940 x 340	1416 x 940 x 340
Net weight		kg	65	98
Pipe diameter	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)
	Gas pipe	Inch (mm)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5 ~ 50	5 ~ 85
Elevation difference (in/out) [7]		m	15 / 30 [8]	15 / 30 [8]
Pipe length for additional gas		m	30	30
Additional gas amount		g/m	45	45
Refrigerant (R32) / CO_2 Eq.		kg / T	1,95 / 1,32	3,05 / 2,06
Operating range	Cool Min ~ Max	°C	-15 ~ +48	-20 ~ +48 [9]
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3	Infrared remote controller
CZ-CAPWFC1	Commercial Wi-Fi Adaptor

Accessories	
PAW-PACR3	Interfaces to run 3 units on Backup and alternative run
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy savings sensor

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the ηsc / ηsh values is calculated based on EN 14825. 3) Factory setting. 4) The sound pressure of the units shows the value measured of the position 1 m in front of the main body and 1 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) Connect the liquid socket tube (Ø6,35-Ø9,52) to the liquid tubing side indoor unit. 6) Connect the gas socket tube (Ø12,70-Ø15,88) to the gas tubing side indoor unit. 7) When installing the outdoor unit at a higher position than the indoor unit. 8) Outdoor unit located lower / outdoor unit located higher. 9) For models 100 ~ 140PZH3E5(8), it is possible to operate the lowest -20 °C in the computer rooms with the piping length of 30 m or less. * Recommended fuse for the indoor 3 A. ** Above values are in the case of nanoe™ X OFF.

R32

A++ 8,4 SEER

A++ 4,9 SCOP

INVERTER+

-15°C COOLING MODE

-20°C HEATING MODE

nanoeX

DC FAN

R22 R410A ⊕ R32 R22/R410A RENEWAL

OPTIONAL WI-FI

BMS CONNECTIVITY

SEER and SCOP: For S-3650PK3E + U-36PZH3E5. INTERNET CONTROL: Optional.

NEW
2021

• nanoeX

nanoe™ X as a standard.

NEW PACi NX Series Standard wall-mounted Inverter+
• R32

The wall-mounted units with stylish matt color can be offered for many applications such as studios, gyms, high ceiling areas and even computer server rooms.
The compact design and flat face ensure discreet installation, even in a small space.

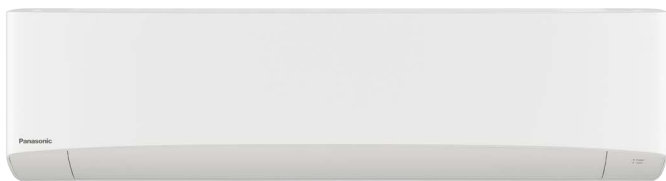|			Single phase				
			3,6 kW	**5,0 kW**	**6,0 kW**	**7,1 kW**	**10,0 kW**
Kit			KIT-36PK3Z5	KIT-50PK3Z5	KIT-60PK3Z5	KIT-71PK3Z5	KIT-100PK3Z5
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min – Max)	kW	3,6 (1,5 - 4,0)	5,0 (1,5 - 5,6)	6,1 (2,0 - 7,1)	7,1 (2,6 - 7,7)	9,0 (3,0 - 9,7)
EER [1]		W/W	4,14	3,52	3,67	3,16	3,47
SEER [2]			**7,6 A++**	**7,4 A++**	**7,0 A++**	**5,8 A+**	**6,5 A++**
Pdesign		kW	3,6	5,0	6,1	7,1	9,0
Input power cooling		kW	0,87	1,42	1,66	2,25	2,59
Annual energy consumption [3]		kWh/a	166	237	3,05	429	485
Heating capacity	Nominal (Min – Max)	kW	3,6 (1,5 - 4,6)	5,0 (1,5 - 6,4)	6,1 (1,8 - 7,0)	7,1 (2,1 - 8,1)	9,0 (3,0 - 10,5)
COP [1]		W/W	4,62	4,20	4,39	4,23	3,93
SCOP [2]			**4,5 A+**	**4,4 A+**	**4,7 A++**	**4,4 A+**	**3,9 A**
Pdesign at -10 °C		kW	2,8	4,0	4,6	5,2	9,0
Input power heating		kW	0,78	1,19	1,39	1,68	2,29
Annual energy consumption [3]		kWh/a	872	1273	1370	1653	3231
Indoor unit			**S-3650PK3E**	**S-3650PK3E**	**S-6010PK3E**	**S-6010PK3E**	**S-6010PK3E**
Air flow	Hi / Med / Lo	m³/min	13,0 / 11,0 / 9,0	16,0 / 13,5 / 11,0	20,0 / 17,5 / 14,5	20,0 / 17,5 / 14,5	22,0 / 18,5 / 15,0
Moisture removal volume		L/h	0,9	1,8	2,0	3,0	4,3
Sound pressure [4]	Hi / Med / Lo	dB(A)	35 / 31 / 27	40 / 36 / 32	47 / 44 / 40	47 / 44 / 40	49 / 45 / 41
Sound power	Hi / Med / Lo	dB(A)	51 / 47 / 43	56 / 52 / 48	63 / 60 / 56	63 / 60 / 56	65 / 61 / 57
Dimension	H x W x D	mm	302 x 1120 x 236	302 x 1120 x 236	302 x 1120 x 236	302 x 1120 x 236	302 x 1120 x 236
Net weight		kg	13	13	14	14	14
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit			**U-36PZ3E5**	**U-50PZ3E5**	**U-60PZ3E5A**	**U-71PZ3E5A**	**U-100PZ3E5**
Power source		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	A	4,05 - 3,85 - 3,70	6,60 - 6,30 - 6,05	7,70 - 7,35 - 7,05	10,4 - 10,00 - 9,55	12,9 - 12,4 - 11,9
	Heat	A	3,65 - 3,50 - 3,35	5,60 - 5,35 - 5,10	6,45 - 6,15 - 5,90	7,80 - 7,45 - 7,15	11,4 - 10,9 - 10,5
Air flow	Cool / Heat	m³/min	33,6 / 34,0	32,7 / 31,9	42,6 / 41,5	44,7 / 45,9	73,0 / 73,0
Sound pressure	Cool / Heat (Hi)	dB(A)	46 / 47	46 / 46	47 / 48	48 / 49	52 / 52
Sound power	Cool / Heat (Hi)	dB(A)	64 / 66	64 / 64	64 / 65	66 / 68	70 / 70
Dimension	H x W x D	mm	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
Net weight		kg	32	35	42	50	83
Pipe diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) [5]	1/4 (6,35) [5]	3/8 (9,52)
	Gas pipe	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) [6]	5/8 (15,88) [6]	5/8 (15,88)
Pipe length range		m	3 ~ 15	3 ~ 20	3 ~ 40	3 ~ 40	5 ~ 50
Elevation difference (in/out) [7]		m	15 / 15 [8]	15 / 15 [8]	15 / 30 [8]	20 / 30 [8]	15 / 30 [8]
Pipe length for additional gas		m	7,5	7,5	30	30	30
Additional gas amount		g/m	10	15	15	17	45
Refrigerant (R32) / CO_2 Eq.		kg / T	0,87 / 0,59	1,14 / 0,77	1,15 / 0,78	1,32 / 0,89	2,4 / 1,62
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

Technical focus

· Modern design with flat face and compact size
· DC fan for better efficiency and control
· Six directional piping outlet
· nanoe™ X (Generator Mark 2= 9,6 trillion hydroxyl radicals/sec) as standard for better indoor air quality
· Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®
· Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

Closed discharge port

When the unit is turned OFF, the flap closes completely to prevent dust getting into the unit and to keep the equipment clean.

Quiet operation

These units are among the quietest in the industry, making them ideal for hotels and hospitals.

Piping outlet in six directions

Piping outlet is possible in the six directions of right, right rear, right bottom, left, left rear and left bottom, making the installation work easier.

CZ-RTC5B

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

CONEX

Optional controller. CONEX wired remote controller. CZ-RTC6 - CZ-RTC6BL - CZ-RTC6BLW

Optional controller. Infrared remote controller. CZ-RWS3

Optional Econavi sensor. CZ-CENSC1

			Three phase
			10,0 kW
Kit			**KIT-100PK3Z8**
Remote controller			**CZ-RTC5B**
Cooling capacity	Nominal (Min - Max)	kW	9,0 (3,0 - 9,7)
EER [1]		W/W	3,47
SEER [2]			**6,5 A++**
Pdesign		kW	9,0
Input power cooling		kW	2,59
Annual energy consumption [3]		kWh/a	485
Heating capacity	Nominal (Min - Max)	kW	9,0 (3,0 - 10,5)
COP [1]		W/W	3,93
SCOP [2]			**3,9 A**
Pdesign at -10 °C		kW	9,0
Input power heating		kW	2,29
Annual energy consumption [3]		kWh/a	3231
Indoor unit			**S-6010PK3E**
Air flow	Hi / Med / Lo	m³/min	22,0 / 18,5 / 15,0
Moisture removal volume		L/h	4,3
Sound pressure [4]	Hi / Med / Lo	dB(A)	49 / 45 / 41
Sound power	Hi / Med / Lo	dB(A)	65 / 61 / 57
Dimension	H x W x D	mm	302 x 1120 x 236
Net weight		kg	14
nanoe X Generator			Mark 2
Outdoor unit			**U-100PZ3E8**
Power source		V	380 - 400 - 415
Current	Cool	A	4,30 - 4,10 - 3,95
	Heat	A	3,80 - 3,65 - 3,50
Air flow	Cool / Heat	m³/min	73,0 / 73,0
Sound pressure	Cool / Heat (Hi)	dB(A)	52 / 52
Sound power	Cool / Heat (Hi)	dB(A)	70 / 70
Dimension	H x W x D	mm	996 x 980 x 370
Net weight		kg	83
Pipe diameter	Liquid pipe	Inch (mm)	3/8 (9,52)
	Gas pipe	Inch (mm)	5/8 (15,88)
Pipe length range		m	5 ~ 50
Elevation difference (in/out) [7]		m	15 / 30 [8]
Pipe length for additional gas		m	30
Additional gas amount		g/m	45
Refrigerant (R32) / CO_2 Eq.		kg / T	2,4 / 1,62
Operating range	Cool Min ~ Max	°C	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3	Infrared remote controller
CZ-CAPWFC1	Commercial Wi-Fi Adaptor

Accessories	
PAW-PACR3	Interfaces to run 3 units on Backup and alternative run
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy savings sensor

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the ηsc / ηsh values is calculated based on EN 14825. 3) Factory setting. 4) The sound pressure of the units shows the value measured of the position 1 m in front of the main body and 1 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) Connect the liquid socket tube (Ø6,35-Ø9,52) to the liquid tubing side indoor unit. 6) Connect the gas socket tube (Ø12,70-Ø15,88) to the gas tubing side indoor unit. 7) When installing the outdoor unit at a higher position than the indoor unit. 8) Outdoor unit located lower / outdoor unit located higher. * Recommended fuse for the indoor 3 A. ** Above values are in the case of nanoe™ X OFF.

R32 | A++ 7,6 SEER | A++ 4,7 SCOP | INVERTER+ | -10°C COOLING MODE | -15°C HEATING MODE | nanoeX | DC FAN | R22 R410A / R32 R22/R410A RENEWAL | OPTIONAL WI-FI | BMS CONNECTIVITY

SEER: For S-3650PK3E + U-36PZ3E5. SCOP: For S-6010PK3E + U-60PZ3E5A. INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Heating Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.com.
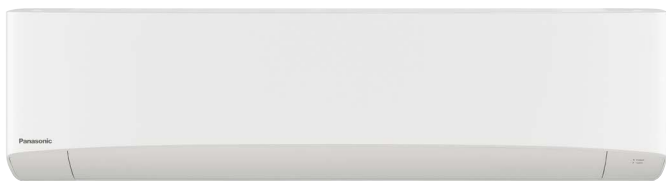
R32

nanoe**X**™

nanoe™ X as a standard.

NEW PACi NX Series Elite and Standard 4 way 60x60 cassette Inverter+ • R32

New 4 way 60x60 cassette - PY3.
· From 2,5 to 6,0 kW (4 capacity sizes)
· Chassis dimensions (H x W x D): 230 x 575 x 575 mm
· SEER/SCOP class A++*
· Built-in drain pump

* SCOP class A+ in case of 2,5 / 6,0 kW.

Elite			Single phase		
			3,6 kW	**5,0 kW**	**6,0 kW**
Kit					
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	3,6 (1,2 - 4,0)	5,0 (1,2 - 5,6)	6,0 (1,2 - 6,5)
EER [1]		W/W	4,50	3,76	3,43
SEER [2]			**6,8 A++**	**6,7 A++**	**6,7 A++**
Pdesign		kW	3,6	5,0	6,0
Input power cooling		kW	0,80	1,33	1,75
Annual energy consumption [3]		kWh/a			
Heating capacity	Nominal (Min - Max)	kW	4,0 (1,2 - 5,0)	5,6 (1,2 - 6,5)	7,0 (1,2 - 7,5)
COP [1]		W/W	4,12	3,37	3,35
SCOP [2]			**4,7 A++**	**4,6 A++**	**4,3 A+**
Pdesign at -10 °C		kW	3,6	4,5	4,6
Input power heating		kW	0,97	1,66	2,09
Annual energy consumption [3]		kWh/a			
Indoor unit			**S-36PY3E**	**S-50PY3E**	**S-60PY3E**
Air flow	Hi / Med / Lo	m³/min	9,5 / 8,0 / 6,0	12,0 / 9,5 / 6,5	14,0 / 10,5 / 8,0
Moisture removal volume		L/h	1,5	2,3	2,8
Sound pressure [4]	Hi / Med / Lo	dB(A)	34 / 30 / 25	39 / 34 / 27	43 / 37 / 31
Sound power	Hi / Med / Lo	dB(A)	49 / 45 / 40	54 / 49 / 42	58 / 52 / 46
Dimension	Indoor (H x W x D)	mm			
	Panel (H x W x D)	mm			
Net weight	Indoor / Panel	kg			
nanoe X Generator					
Outdoor unit			**U-36PZH3E5**	**U-50PZH3E5**	**U-60PZH3E5**
Power source		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	A	3,25 - 3,10 - 3,00	5,50 - 5,25 - 5,05	6,95 - 6,65 - 6,35
	Heat	A	3,60 - 3,45 - 3,30	6,25 - 6,00 - 5,75	8,05 - 7,70 - 7,40
Air flow	Cool / Heat	m³/min	34,1 / 36,4	42,0 / 42,0	42,0 / 42,0
Sound pressure	Cool / Heat (Hi)	dB(A)	43 / 44	46 / 48	47 / 50
Sound power	Cool / Heat (Hi)	dB(A)	62 / 64	64 / 67	65 / 69
Dimension	H x W x D	mm	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320
Net weight		kg	42	42	43
Pipe diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) [5]
	Gas pipe	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) [6]
Pipe length range		m	3 ~ 40	3 ~ 40	3 ~ 40
Elevation difference (in/out) [7]		m	15 / 30 [8]	15 / 30 [8]	15 / 30 [8]
Pipe length for additional gas		m	30	30	30
Additional gas amount		g/m	15	15	15
Refrigerant (R32) / CO_2 Eq.		kg / T	1,13 / 0,76	1,13 / 0,76	1,15 / 0,78
Operating range	Cool Min ~ Max	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24

Tentative data

Compact and stylish design

· Ceiling depth is only 243 mm
· Exposed area is only 30 mm

Industry-leading energy efficiency

Achieved SEER/SCOP class A++*.

* SCOP class A+ in case of 2,5 / 6,0 kW.

Individual flap control

Better control of the air flow with 2 flap motors.

R32 | A++ 6,8 SEER | A++ 4,7 SCOP | 28% ECONAVI | INVERTER+ | -15°C COOLING MODE | -20°C HEATING MODE | nanoeX | DC FAN | R22 R410A / R32 R22/R410A RENEWAL | OPTIONAL WI-FI | BMS CONNECTIVITY
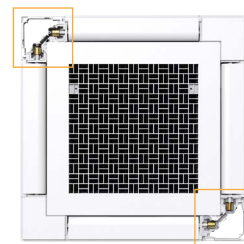
SEER and SCOP: For S-36PY3E + U-36PZH3E5. ECONAVI and INTERNET CONTROL: Optional.

Panel.
CZ-KPY4

CZ-RTC5B

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

CONEX

25.0c

Optional controller. CONEX wired remote controller.
CZ-RTC6 - CZ-RTC6BL - CZ-RTC6BLW

Optional controller. Infrared remote controller.
CZ-RWS3 + CZ-RWRY3

Optional Econavi sensor.
CZ-CENSC1

Standard			Single phase			
			2,5 kW	**3,6 kW**	**5,0 kW**	**6,0 kW**
Kit						
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	2,5 (1,5 - 3,9)	3,6 (1,5 - 4,0)	5,0 (1,5 - 5,6)	6,0 (2,0 - 7,0)
EER [1]		W/W	4,46	3,96	3,50	3,39
SEER [2]			6,3 A++	6,7 A++	6,6 A++	6,6 A++
Pdesign		kW	2,5	3,6	5,0	6,0
Input power cooling		kW	0,56	0,91	1,43	1,77
Annual energy consumption [3]		kWh/a				
Heating capacity	Nominal (Min - Max)	kW	3,2 (1,5 - 4,6)	3,6 (1,5 - 4,6)	5,0 (1,5 - 6,4)	6,0 (1,8 - 7,0)
COP [1]		W/W	4,44	4,29	3,94	3,61
SCOP [2]			4,4 A+	4,3 A+	4,2 A+	4,1 A+
Pdesign at -10 °C		kW	2,5	2,8	4,0	4,6
Input power heating		kW	0,72	0,84	1,27	1,66
Annual energy consumption [3]		kWh/a				
Indoor unit			S-25PY3E	S-36PY3E	S-50PY3E	S-60PY3E
Air flow	Hi / Med / Lo	m³/min	8,5 / 7,0 / 6,0	9,5 / 8,0 / 6,0	12,0 / 9,5 / 6,5	14,0 / 10,5 / 8,0
Moisture removal volume		L/h	0,7	1,5	2,3	2,8
Sound pressure [4]	Hi / Med / Lo	dB(A)	31 / 28 / 25	34 / 30 / 25	39 / 34 / 27	43 / 37 / 31
Sound power	Hi / Med / Lo	dB(A)	46 / 43 / 40	49 / 45 / 40	54 / 49 / 42	58 / 52 / 46
Dimension	Indoor (H x W x D)	mm				
	Panel (H x W x D)	mm				
Net weight	Indoor / Panel	kg				
nanoe X Generator						
Outdoor unit			U-25PZ3E5	U-36PZ3E5	U-50PZ3E5	U-60PZ3E5A
Power source		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	A		4,05 - 3,85 - 3,70	6,60 - 6,30 - 6,05	7,70 - 7,35 - 7,05
	Heat	A		3,65 - 3,50 - 3,35	5,60 - 5,35 - 5,10	6,45 - 6,15 - 5,90
Air flow	Cool / Heat	m³/min		33,6 / 34,0	32,7 / 31,9	42,6 / 41,5
Sound pressure	Cool / Heat (Hi)	dB(A)		46 / 47	46 / 46	47 / 48
Sound power	Cool / Heat (Hi)	dB(A)		64 / 66	64 / 64	64 / 65
Dimension	H x W x D	mm		619 x 824 x 299	619 x 824 x 299	695 x 875 x 320
Net weight		kg		32	35	42
Pipe diameter	Liquid pipe	Inch (mm)		1/4 (6,35)	1/4 (6,35)	1/4 (6,35) [5]
	Gas pipe	Inch (mm)		1/2 (12,70)	1/2 (12,70)	1/2 (12,70) [6]
Pipe length range		m		3 ~ 15	3 ~ 20	3 ~ 40
Elevation difference (in/out) [7]		m		15 / 15 [8]	15 / 15 [8]	15 / 30 [8]
Pipe length for additional gas		m		7,5	7,5	7,5
Additional gas amount		g/m		10	15	15
Refrigerant (R32) / CO_2 Eq.		kg / T		0,87 / 0,59	1,14 / 0,77	1,15 / 0,78
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

Tentative data

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRY3	Infrared remote controller
CZ-CAPWFC1	Commercial Wi-Fi Adaptor

Accessories	
PAW-PACR3	Interfaces to run 3 units on Backup and alternative run
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy savings sensor

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the η_{sc} / η_{sh} values is calculated based on EN 14825. 3) Factory setting. 4) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) Connect the liquid socket tube (Ø6,35-Ø9,52) to the liquid tubing side indoor unit. 6) Connect the gas socket tube (Ø12,70-Ø15,88) to the gas tubing side indoor unit. 7) When installing the outdoor unit at a higher position than the indoor unit. 8) Outdoor unit located lower / outdoor unit located higher. 9) For models 100 ~ 140PZH3E5(8), it is possible to operate the lowest -20 °C in the computer rooms with the piping length of 30 m or less. * Recommended fuse for the indoor 3 A. ** Above values are in the case of nanoe™ X OFF. *** Available in Autumn 2021.

R32 A++ 6,7 SEER A+ 4,4 SCOP 28% ECONAVI INVERTER+ -10°C COOLING MODE -15°C HEATING MODE nanoeX DC FAN R22 R410A → R32 R22/R410A RENEWAL OPTIONAL WI-FI BMS CONNECTIVITY

SEER: For S-36PY3E + U-36PZ3E5. SCOP: For S-25PY3E + U-25PZ3E5. ECONAVI and INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Heating Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

NEW
2021

nanoe X

nanoe™ X as a standard.

NEW PACi NX Series Elite 4 way 90x90 cassette Inverter+ • R32

New 4 way 90x90 cassette - PU3.
Powerful turbo fan and intelligent Econavi sensor ensure high energy efficiency, and nanoe™ X which is equipped as standard provides an exceptional level of indoor air quality.

			Single phase						
			3,6 kW	5,0 kW	6,0 kW	7,1 kW	10,0 kW	12,5 kW	14,0 kW
Kit			KIT-36PU3ZH5	KIT-50PU3ZH5	KIT-60PU3ZH5	KIT-71PU3ZH5	KIT-100PU3ZH5	KIT-125PU3ZH5	KIT-140PU3ZH5
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	3,6 (1,2 - 4,0)	5,0 (1,2 - 5,6)	6,0 (1,2 - 7,1)	7,1 (2,2 - 9,0)	10,0 (3,1 - 12,5)	12,5 (3,2 - 14,0)	14,0 (3,3 - 16,0)
EER [1]		W/W	5,45	4,31	4,05	4,06	4,41	3,80	3,41
SEER / ηsc [2]			8,9 A+++	8,6 A+++	8,0 A++	7,7 A++	7,8 A++	304,3 %	286,6 %
Pdesign		kW	3,6	5,0	6,0	7,1	10,0	12,5	14,0
Input power cooling		kW	0,66	1,16	1,48	1,75	2,27	3,29	4,11
Annual energy consumption [3]		kWh/a	142	203	263	323	449	—	—
Heating capacity	Nominal (Min - Max)	kW	4,0 (1,2 - 5,0)	5,6 (1,2 - 6,5)	7,0 (1,2 - 8,0)	8,0 (2,0 - 9,0)	11,2 (3,1 - 14,0)	14,0 (3,2 - 16,0)	16,0 (3,3 - 18,0)
COP [1]		W/W	5,41	4,24	4,02	4,30	5,00	4,61	4,30
SCOP / ηsc [2]			5,1 A+++	4,9 A++	4,8 A++	4,8 A++	4,9 A++	186,0 %	181,2 %
Pdesign at -10 °C		kW	3,6	4,5	4,7	5,2	8,0	9,5	10,6
Input power heating		kW	0,74	1,32	1,74	1,86	2,24	3,04	3,72
Annual energy consumption [3]		kWh/a	988	1286	1371	1517	2286	—	—
Indoor unit			S-3650PU3E	S-3650PU3E	S-6071PU3E	S-6071PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E
Air flow	Hi / Med / Lo	m³/min	14,5 / 13,0 / 11,5	16,5 / 13,5 / 11,5	21,0 / 16,0 / 13,0	22,0 / 16,0 / 13,0	36,0 / 26,0 / 18,0	37,0 / 27,0 / 19,0	38,0 / 29,0 / 20,0
Moisture removal volume		L/h	0,7	1,6	1,7	2,5	2,7	4,8	6,0
Sound pressure [4]	Hi / Med / Lo	dB(A)	30 / 28 / 27	32 / 29 / 27	36 / 31 / 28	37 / 31 / 28	45 / 38 / 32	46 / 39 / 33	47 / 40 / 34
Sound power	Hi / Med / Lo	dB(A)	45 / 43 / 42	47 / 44 / 42	51 / 46 / 43	52 / 46 / 43	60 / 53 / 47	61 / 54 / 48	62 / 55 / 49
Dimension	Indoor (H x W x D)	mm	256 x 840 x 840	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
	Panel (H x W x D)	mm	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950
Net weight	Indoor / Panel	kg	19 / 5	19 / 5	20 / 5	20 / 5	25 / 5	25 / 5	25 / 5
nanoe X Generator			Mark 1	Mark 1	Mark 1	Mark 1	Mark 1	Mark 1	Mark 1
Outdoor unit			U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH3E5	U-100PZH3E5	U-125PZH3E5	U-140PZH3E5
Power source		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	A	3,25 - 3,10 - 3,00	5,50 - 5,25 - 5,05	6,95 - 6,65 - 6,35	8,65 - 8,25 - 7,95	11,20 - 10,70 - 10,30	16,10 - 15,40 - 14,70	20,10 - 19,20 - 18,40
	Heat	A	3,60 - 3,45 - 3,30	6,25 - 6,00 - 5,75	8,05 - 7,70 - 7,40	9,00 - 8,70 - 8,35	10,90 - 10,60 - 10,10	14,90 - 14,20 - 13,60	18,20 - 17,40 - 16,70
Air flow	Cool / Heat	m³/min	34,1 / 36,4	42,0 / 42,0	42,0 / 42,0	61,0 / 60,0	118,0 / 108,0	125,0 / 112,0	129,0 / 116,0
Sound pressure	Cool / Heat (Hi)	dB(A)	43 / 44	46 / 48	47 / 50	48 / 50	52 / 52	53 / 53	54 / 54
Sound power	Cool / Heat (Hi)	dB(A)	62 / 64	64 / 67	65 / 69	65 / 67	69 / 69	70 / 70	71 / 71
Dimension	H x W x D	mm	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320	996 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340
Net weight		kg	42	42	43	65	98	98	98
Pipe diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) [5]	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas pipe	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) [6]	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	3 ~ 40	3 ~ 40	3 ~ 40	5 ~ 50	5 ~ 85	5 ~ 85	5 ~ 85
Elevation difference (in/out) [7]		m	15 / 30 [8]	15 / 30 [8]	15 / 30 [8]	15 / 30 [8]	15 / 30 [8]	15 / 30 [8]	15 / 30 [8]
Pipe length for additional gas		m	30	30	30	30	30	30	30
Additional gas amount		g/m	15	15	15	45	45	45	45
Refrigerant (R32) / CO_2 Eq.		kg / T	1,13 / 0,76	1,13 / 0,76	1,15 / 0,78	1,95 / 1,32	3,05 / 2,06	3,05 / 2,06	3,05 / 2,06
Operating range	Cool Min ~ Max	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +48	-20 ~ +48 [9]	-20 ~ +48 [9]	-20 ~ +48 [9]
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24

Technical focus

· High performance turbo fan, path system for heat exchanger
· Econavi: An optional intelligent sensor to reduce waste of energy
· nanoe™ X (Generator Mark 1= 4,8 trillion hydroxyl radicals/sec) as standard for better indoor air quality, indoor unit internal cleaning with nanoe™ X and dry operation

· Lower noise in slow fan operation
· Light weight, easy piping and integrated drain pump for quick installation
· Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®
· High volume fresh air input with optional air-intake plenum and chamber (CZ-FDU3+CZ-ATU2)

Standard panel.
CZ-KPU3W

CZ-RTC5B

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Optional Econavi panel (CZ-RTC5B is required). CZ-KPU3AW

CONEX
25.0°C
Optional controller. CONEX wired remote controller. CZ-RTC6 - CZ-RTC6BL - CZ-RTC6BLW

Optional controller. Infrared remote controller. CZ-RWS3 + CZ-RWRU3W

			Three phase			
			7,1 kW	**10,0 kW**	**12,5 kW**	**14,0 kW**
Kit			KIT-71PU3ZH8	KIT-100PU3ZH8	KIT-125PU3ZH8	KIT-140PU3ZH8
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	7,1 (2,2 - 9,0)	10,0 (3,1 - 12,5)	12,5 (3,2 - 14,0)	14,0 (3,3 - 16,0)
EER [1]		W/W	4,06	4,41	3,80	3,41
SEER / ηsc [2]			**7,6 A++**	**7,7 A++**	**303,3 %**	**285,6 %**
Pdesign		kW	7,1	10,0	12,5	14,0
Input power cooling		kW	1,75	2,27	3,29	4,11
Annual energy consumption [3]		kWh/a	327	455	—	—
Heating capacity	Nominal (Min - Max)	kW	8,0 (2,0 - 9,0)	11,2 (3,1 - 14,0)	14,0 (3,2 - 16,0)	16,0 (3,3 - 18,0)
COP [1]		W/W	4,30	5,00	4,61	4,30
SCOP / ηsc [2]			**4,8 A++**	**4,9 A++**	**186,0 %**	**181,1 %**
Pdesign at -10 °C		kW	5,2	8,0	9,5	10,6
Input power heating		kW	1,86	2,24	3,04	3,72
Annual energy consumption [3]		kWh/a	1517	2286	—	—
Indoor unit			**S-6071PU3E**	**S-1014PU3E**	**S-1014PU3E**	**S-1014PU3E**
Air flow	Hi / Med / Lo	m³/min	22,0/16,0/13,0	36,0/26,0/18,0	37,0/27,0/19,0	38,0/29,0/20,0
Moisture removal volume		L/h	2,5	2,7	4,8	6,0
Sound pressure [4]	Hi / Med / Lo	dB(A)	37/31/28	45/38/32	46/39/33	47/40/34
Sound power	Hi / Med / Lo	dB(A)	52/46/43	60/53/47	61/54/48	62/55/49
Dimension	Indoor (H x W x D)	mm	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Panel (H x W x D)	mm	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950
Net weight	Indoor / Panel	kg	20/5	25/5	25/5	25/5
nanoe X Generator			Mark 1	Mark 1	Mark 1	Mark 1
Outdoor unit			**U-71PZH3E8**	**U-100PZH3E8**	**U-125PZH3E8**	**U-140PZH3E8**
Power source		V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Current	Cool	A	2,90 - 2,80 - 2,70	3,80 - 3,60 - 3,45	5,45 - 5,15 - 5,00	6,80 - 6,45 - 6,20
	Heat	A	3,05 - 2,95 - 2,85	3,75 - 3,55 - 3,40	5,10 - 4,80 - 4,65	6,20 - 5,90 - 5,65
Air flow	Cool / Heat	m³/min	61,0/60,0	118,0/108,0	125,0/112,0	129,0/116,0
Sound pressure	Cool / Heat (Hi)	dB(A)	48/50	52/52	53/53	54/54
Sound power	Cool / Heat (Hi)	dB(A)	65/67	69/69	70/70	71/71
Dimension	H x W x D	mm	996 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340
Net weight		kg	65	98	98	98
Pipe diameter	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas pipe	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5 ~ 50	5 ~ 85	5 ~ 85	5 ~ 85
Elevation difference (in/out) [7]		m	15/30 [8]	15/30 [8]	15/30 [8]	15/30 [8]
Pipe length for additional gas		m	30	30	30	30
Additional gas amount		g/m	45	45	45	45
Refrigerant (R32) / CO_2 Eq.		kg / T	1,95 / 1,32	3,05 / 2,06	3,05 / 2,06	3,05 / 2,06
Operating range	Cool Min ~ Max	°C	-15 ~ +48	-20 ~ +48 [9]	-20 ~ +48 [9]	-20 ~ +48 [9]
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRU3W	Infrared remote controller
CZ-CAPWFC1	Commercial Wi-Fi Adaptor

Accessories	
CZ-KPU3AW	Econavi exclusive panel
PAW-PACR3	Interfaces to run 3 units on Backup and alternative run
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-FDU3+CZ-ATU2	Fresh air-intake kit

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the ηsc / ηsh values is calculated based on EN 14825. 3) Factory setting. 4) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) Connect the liquid socket tube (Ø6,35-Ø9,52) to the liquid tubing side indoor unit. 6) Connect the gas socket tube (Ø12,70-Ø15,88) to the gas tubing side indoor unit. 7) When installing the outdoor unit at a higher position than the indoor unit. 8) Outdoor unit located lower / outdoor unit located higher. 9) For models 100 ~ 140PZH3E5(8), it is possible to operate the lowest -20 °C in the computer rooms with the piping length of 30 m or less. * Recommended fuse for the indoor 3 A. ** Above values are in the case of nanoe™ X OFF.

R32 | A+++ 8,9 SEER | A+++ 5,1 SCOP | 28% ECONAVI | INVERTER+ | -20°C COOLING MODE | -20°C HEATING MODE | nanoeX | DC FAN | R22/R410A R32 R22/R410A RENEWAL | OPTIONAL WI-FI | BMS CONNECTIVITY

SEER and SCOP: For S-3650PU3E + U-36PZH3E5. ECONAVI and INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Heating Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.com.

NEW 2021

nanoe**X**

nanoe™ X as a standard.

NEW PACi NX Series Standard 4 way 90x90 cassette Inverter+ • R32

New 4 way 90x90 cassette - PU3.
Powerful turbo fan and intelligent Econavi sensor ensure high energy efficiency, and nanoe™ X which is equipped as standard provides an exceptional level of indoor air quality.

			Single phase						
			3,6 kW	5,0 kW	6,0 kW	7,1 kW	10,0 kW	12,5 kW	14,0 kW
Kit			KIT-36PU3Z5	KIT-50PU3Z5	KIT-60PU3Z5	KIT-71PU3Z5	KIT-100PU3Z5	KIT-125PU3Z5	KIT-140PU3Z5
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	3,6 (1,5 - 4,0)	5,0 (1,5 - 5,6)	6,0 (2,0 - 7,1)	7,1 (2,6 - 7,7)	10,0 (3,0 - 11,5)	12,5 (3,2 - 13,5)	14,0 (3,3 - 15,0)
EER [1]	Nominal (Min - Max)	W/W	4,34	3,91	3,73	3,27	3,82 (5,36 - 2,88)	3,58 (5,33 - 2,81)	3,23 (5,32 - 2,73)
SEER / ηsc [2]			**8,1 A++**	**8,0 A++**	**7,8 A++**	**6,8 A++**	**6,8 A++**	**267,0 %**	**257,0 %**
Pdesign		kW	3,6	5,0	6,0	7,1	10,0	12,5	14,0
Input power cooling	Nominal (Min - Max)	kW	0,83	1,28	1,61	2,17	2,62 (0,56 - 4,00)	3,49 (0,60 - 4,80)	4,34 (0,62 - 5,50)
Annual energy consumption [3]		kWh/a	156	219	269	365	515	—	—
Heating capacity	Nominal (Min - Max)	kW	3,6 (1,5 - 4,6)	5,0 (1,5 - 6,4)	6,0 (1,8 - 7,0)	7,1 (2,1 - 8,1)	10,0 (3,0 - 14,0)	12,5 (3,3 - 15,0)	14,0 (3,4 - 16,0)
COP [1]	Nominal (Min - Max)	W/W	5,07	4,63	4,48	4,23	4,93 (5,36 - 3,59)	4,43 (5,50 - 3,57)	4,18 (5,48 - 3,33)
SCOP / ηsc [2]			**4,8 A++**	**4,7 A++**	**4,9 A++**	**4,6 A++**	**4,4 A+**	**157,0 %**	**152,2 %**
Pdesign at -10 °C		kW	2,8	4,0	4,6	5,2	10,0	12,5	14,0 (at -7 °C)
Input power heating	Nominal (Min - Max)	kW	0,71	1,08	1,34	1,68	2,03 (0,56 - 3,90)	2,82 (0,60 - 4,20)	3,35 (0,62 - 4,80)
Annual energy consumption [3]		kWh/a	817	1191	1314	1583	3182	—	—
Indoor unit			S-3650PU3E	S-3650PU3E	S-6071PU3E	S-6071PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E
Air flow	Hi / Med / Lo	m³/min	14,5 / 13,0 / 11,5	16,5 / 13,5 / 11,5	21,0 / 16,0 / 13,0	22,0 / 16,0 / 13,0	36,0 / 26,0 / 18,0	37,0 / 27,0 / 19,0	38,0 / 29,0 / 20,0
Moisture removal volume		L/h	0,7	1,6	1,7	2,5	2,7	4,8	6,0
Sound pressure [4]	Hi / Med / Lo	dB(A)	30 / 28 / 27	32 / 29 / 27	36 / 31 / 28	37 / 31 / 28	45 / 38 / 32	46 / 39 / 33	47 / 40 / 34
Sound power	Hi / Med / Lo	dB(A)	45 / 43 / 42	47 / 44 / 42	51 / 46 / 43	52 / 46 / 43	60 / 53 / 47	61 / 54 / 48	62 / 55 / 49
Dimension	Indoor (H x W x D)	mm	256 x 840 x 840	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
	Panel (H x W x D)	mm	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950
Net weight	Indoor / Panel	kg	19 / 5	19 / 5	20 / 5	20 / 5	25 / 5	25 / 5	25 / 5
nanoe X Generator			Mark 1	Mark 1	Mark 1	Mark 1	Mark 1	Mark 1	Mark 1
Outdoor unit			U-36PZ3E5	U-50PZ3E5	U-60PZ3E5A	U-71PZ3E5A	U-100PZ3E5	U-125PZ3E5	U-140PZ3E5
Power source		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	A	3,85 - 3,70 - 3,55	5,95 - 5,70 - 5,45	7,45 - 7,15 - 6,85	10,00 - 9,65 - 9,25	13,10 - 12,50 - 12,00	16,90 - 16,10 - 15,40	21,00 - 20,00 - 19,20
	Heat	A	3,35 - 3,20 - 3,05	5,05 - 4,85 - 4,65	6,20 - 5,95 - 5,70	7,80 - 7,45 - 7,15	10,10 - 9,70 - 9,30	13,60 - 13,00 - 12,50	16,20 - 15,50 - 14,80
Air flow	Cool / Heat	m³/min	33,6 / 34,0	32,7 / 31,9	42,6 / 41,5	44,7 / 45,9	73,0 / 73,0	82,0 / 80,0	84,0 / 82,0
Sound pressure	Cool / Heat (Hi)	dB(A)	46 / 47	46 / 46	47 / 48	48 / 49	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB(A)	64 / 66	64 / 64	64 / 65	66 / 68	70 / 70	73 / 73	74 / 74
Dimension	H x W x D	mm	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	32	35	42	50	83	87	87
Pipe diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) [5]	1/4 (6,35) [5]	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas pipe	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) [6]	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	3 ~ 15	3 ~ 20	3 ~ 40	3 ~ 40	5 ~ 50	5 ~ 50	5 ~ 50
Elevation difference (in/out) [7]		m	15 / 15 [8]	15 / 15 [8]	15 / 30 [8]	20 / 30 [8]	15 / 30 [8]	15 / 30 [8]	15 / 30 [8]
Pipe length for additional gas		m	7,5	7,5	30	30	30	30	30
Additional gas amount		g/m	10	15	15	17	45	45	45
Refrigerant (R32) / CO_2 Eq.		kg / T	0,87 / 0,59	1,14 / 0,77	1,15 / 0,78	1,32 / 0,89	2,40 / 1,62	2,80 / 1,89	2,80 / 1,89
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

Technical focus

· High performance turbo fan, path system for heat exchanger
· Econavi: An optional intelligent sensor to reduce waste of energy
· nanoe™ X (Generator Mark 1= 4,8 trillion hydroxyl radicals/sec) as standard for better indoor air quality, indoor unit internal cleaning with nanoe™ X and dry operation

· Lower noise in slow fan operation
· Light weight, easy piping and integrated drain pump for quick installation
· Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®
· High volume fresh air input with optional air-intake plenum and chamber (CZ-FDU3+CZ-ATU2)

Standard panel.
CZ-KPU3W

CZ-RTC5B

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

CONEX

Optional Econavi panel (CZ-RTC5B is required). CZ-KPU3AW

Optional controller. CONEX wired remote controller. CZ-RTC6 - CZ-RTC6BL - CZ-RTC6BLW

Optional controller. Infrared remote controller. CZ-RWS3 + CZ-RWRU3W

			Three phase		
			10,0 kW	12,5 kW	14,0 kW
Kit			KIT-100PU3Z8	KIT-125PU3Z8	KIT-140PU3Z8
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	10,0 (3,0 - 11,5)	12,5 (3,2 - 13,5)	14,0 (3,3 - 15,0)
EER [1]	Nominal (Min - Max)	W/W	3,82 (5,36 - 2,88)	3,58 (5,33 - 2,81)	3,23 (5,32 - 2,73)
SEER / ηsc [2]			6,7 A++	265,8 %	256,2 %
Pdesign		kW	10,0	12,5	14,0
Input power cooling	Nominal (Min - Max)	kW	2,62 (0,56 - 4,00)	3,49 (0,60 - 4,80)	4,34 (0,62 - 5,50)
Annual energy consumption [3]		kWh/a	521	—	—
Heating capacity	Nominal (Min - Max)	kW	10,0 (3,0 - 14,0)	12,5 (3,3 - 15,0)	14,0 (3,4 - 16,0)
COP [1]	Nominal (Min - Max)	W/W	4,93 (5,36 - 3,59)	4,43 (5,50 - 3,57)	4,18 (5,48 - 3,33)
SCOP / ηsc [2]			4,4 A+	157,0 %	152,2 %
Pdesign at -10 °C		kW	10,0	12,5	14,0 (at -7 °C)
Input power heating	Nominal (Min - Max)	kW	2,03 (0,56 - 3,90)	2,82 (0,60 - 4,20)	3,35 (0,62 - 4,80)
Annual energy consumption [3]		kWh/a	3182	—	—
Indoor unit			S-1014PU3E	S-1014PU3E	S-1014PU3E
Air flow	Hi / Med / Lo	m³/min	36,0 / 26,0 / 18,0	37,0 / 27,0 / 19,0	38,0 / 29,0 / 20,0
Moisture removal volume		L/h	2,7	4,8	6,0
Sound pressure [4]	Hi / Med / Lo	dB(A)	45 / 38 / 32	46 / 39 / 33	47 / 40 / 34
Sound power	Hi / Med / Lo	dB(A)	60 / 53 / 47	61 / 54 / 48	62 / 55 / 49
Dimension	Indoor (H x W x D)	mm	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Panel (H x W x D)	mm	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950
Net weight	Indoor / Panel	kg	25 / 5	25 / 5	25 / 5
nanoe X Generator			Mark 1	Mark 1	Mark 1
Outdoor unit			U-100PZ3E8	U-125PZ3E8	U-140PZ3E8
Power source		V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Current	Cool	A	4,35 - 4,15 - 4,00	5,65 - 5,35 - 5,15	7,00 - 6,65 - 6,40
	Heat	A	3,40 - 3,20 - 3,10	4,55 - 4,35 - 4,15	5,40 - 5,15 - 4,95
Air flow	Cool / Heat	m³/min	73,0 / 73,0	82,0 / 80,0	84,0 / 82,0
Sound pressure	Cool / Heat (Hi)	dB(A)	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB(A)	70 / 70	73 / 73	74 / 74
Dimension	H x W x D	mm	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	83	87	87
Pipe diameter	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas pipe	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5 ~ 50	5 ~ 50	5 ~ 50
Elevation difference (in/out) [7]		m	15 / 30 [8]	15 / 30 [8]	15 / 30 [8]
Pipe length for additional gas		m	30	30	30
Additional gas amount		g/m	45	45	45
Refrigerant (R32) / CO$_2$ Eq.		kg / T	2,40 / 1,62	2,80 / 1,89	2,80 / 1,89
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRU3W	Infrared remote controller
CZ-CAPWFC1	Commercial Wi-Fi Adaptor

Accessories	
CZ-KPU3AW	Econavi exclusive panel
PAW-PACR3	Interfaces to run 3 units on Backup and alternative run
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-FDU3+CZ-ATU2	Fresh air-intake kit

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the ηsc / ηsh values is calculated based on EN 14825. 3) Factory setting. 4) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) Connect the liquid socket tube (Ø6,35–Ø9,52) to the liquid tubing side indoor unit. 6) Connect the gas socket tube (Ø12,70–Ø15,88) to the gas tubing side indoor unit. 7) When installing the outdoor unit at a higher position than the indoor unit. 8) Outdoor unit located lower / outdoor unit located higher. * Recommended fuse for the indoor 3 A. ** Above values are in the case of nanoe™ X OFF.

R32 | A++ 8,1 SEER | A++ 4,9 SCOP | 28% ECONAVI | INVERTER+ | -10°C COOLING MODE | -15°C HEATING MODE | nanoeX | DC FAN | R22 R410A / R32 R22/R41BA RENEWAL | OPTIONAL WI-FI | BMS CONNECTIVITY

SEER: For S-3650PU3E + U-36PZ3E5. SCOP: For S-6071PU3E + U-60PZ3E5A. ECONAVI and INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Heating Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.com.

nanoe™ X as a standard.

NEW PACi NX Series Elite ceiling Inverter+ • R32

Ceiling mounted units provide large and wide air distribution which is good for big rooms.
The height and depth of all capacities are the same for unified appearance in mixed installations.

			Single phase						
			3,6 kW	5,0 kW	6,0 kW	7,1 kW	10,0 kW	12,5 kW	14,0 kW
Kit			KIT-36PT3ZH5	KIT-50PT3ZH5	KIT-60PT3ZH5	KIT-71PT3ZH5	KIT-100PT3ZH5	KIT-125PT3ZH5	KIT-140PT3ZH5
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min-Max)	kW	3,5 (1,2-4,0)	5,0 (1,2-5,6)	6,0 (1,2-7,1)	6,8 (2,2-9,0)	9,5 (3,1-12,5)	12,1 (3,2-14,0)	13,4 (3,3-16,0)
EER [1]		W/W	4,86	4,03	3,82	3,91	4,15	3,51	3,21
SEER / ηsc [2]			7,7 A++	7,4 A++	7,5 A++	7,3 A++	7,3 A++	278,4 %	263,3 %
Pdesign		kW	3,5	5,0	6,0	6,8	9,5	12,1	13,4
Input power cooling		kW	0,720	1,24	1,57	1,74	2,29	3,45	4,17
Annual energy consumption [3]		kWh/a	160	237	280	326	456	—	—
Heating capacity	Nominal (Min-Max)	kW	4,0 (1,2-5,0)	5,6 (1,2-6,5)	7,0 (1,2-8,0)	8,0 (2,0-9,0)	11,2 (3,1-14,0)	14,0 (3,2-16,0)	16,0 (3,3-18,0)
COP [1]		W/W	5,00	4,03	4,14	3,96	4,09	3,78	3,48
SCOP / ηsc [2]			4,9 A++	4,8 A++	4,8 A++	4,7 A++	4,7 A++	181,0 %	178,0 %
Pdesign at -10 °C		kW	3,1	4,0	4,6	4,7	7,8	9,5	10,2
Input power heating		kW	0,80	1,39	1,69	2,02	2,74	3,70	4,60
Annual energy consumption [3]		kWh/a	886	1167	1342	1400	2323	—	—
Indoor unit			S-3650PT3E	S-3650PT3E	S-6071PT3E	S-6071PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E
Air flow	Hi / Med / Lo	m³/min	14,0/12,0/10,5	15,0/12,5/10,5	20,0/17,0/14,5	21,0/18,0/15,5	30,0/25,0/23,0	34,0/28,0/24,0	35,0/29,0/25,0
Moisture removal volume		L/h	0,8	2,0	2,1	2,7	3,6	5,4	6,4
Sound pressure [4]	Hi / Med / Lo	dB(A)	36/32/28	37/33/28	38/34/29	39/35/30	42/37/34	46/40/35	47/41/36
Sound power	Hi / Med / Lo	dB(A)	54/50/46	55/51/46	56/52/47	57/53/48	60/55/52	64/58/53	65/59/54
Dimension	H x W x D	mm	235 x 960 x 690	235 x 960 x 690	235 x 1275 x 690	235 x 1275 x 690	235 x 1590 x 690	235 x 1590 x 690	235 x 1590 x 690
Net weight		kg	26	26	34	34	40	40	40
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit			U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH3E5	U-100PZH3E5	U-125PZH3E5	U-140PZH3E5
Power source		V	220-230-240	220-230-240	220-230-240	220-230-240	220-230-240	220-230-240	220-230-240
Current	Cool	A	3,55-3,40-3,25	5,85-5,60-5,40	7,35-7,05-6,75	8,60-8,20-7,90	11,30-10,80-10,40	16,90-16,10-15,50	20,40-19,50-18,70
	Heat	A	3,90-3,75-,3,60	6,60-6,30-6,05	7,85-7,50-7,20	9,75-9,45-9,05	13,40-12,90-12,40	18,10-17,30-16,60	22,50-21,50-20,60
Air flow	Cool / Heat	m³/min	34,1/36,4	42,0/42,0	42,0/42,0	61,0/60,0	118,0/108,0	125,0/112,0	129,0/116,0
Sound pressure	Cool / Heat (Hi)	dB(A)	43/44	46/48	47/50	48/50	52/52	53/53	54/54
Sound power	Cool / Heat (Hi)	dB(A)	62/64	64/67	65/69	65/67	69/69	70/70	71/71
Dimension	H x W x D	mm	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320	996 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340
Net weight		kg	42	42	43	65	98	98	98
Pipe diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) [5]	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas pipe	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) [6]	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	3~40	3~40	3~40	5~50	5~85	5~85	5~85
Elevation difference (in/out) [7]		m	15/30 [8]	15/30 [8]	15/30 [8]	15/30 [8]	15/30 [8]	15/30 [8]	15/30 [8]
Pipe length for additional gas		m	30	30	30	30	30	30	30
Additional gas amount		g/m	15	15	15	45	45	45	45
Refrigerant (R32) / CO_2 Eq.		kg / T	1,13/0,76	1,13/0,76	1,15/0,78	1,95/1,32	3,05/2,06	3,05/2,06	3,05/2,06
Operating range	Cool Min ~ Max	°C	-15~+46	-15~+46	-15~+46	-15~+48	-20~+48 [9]	-20~+48 [9]	-20~+48 [9]
	Heat Min ~ Max	°C	-20~+24	-20~+24	-20~+24	-20~+24	-20~+24	-20~+24	-20~+24

Technical focus

· Wide air distribution for large rooms
· Horizontal air flow reaches maximum 9,5 m
· Fresh air connection available on the unit
· Slim design with 235 mm height fits narrow space
· Silent operation
· nanoe™ X (Generator Mark 2= 9,6 trillion hydroxyl radicals/sec) as standard for better indoor air quality
· Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®
· Twin, Triple and Double-twin split options
· Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

Further comfort improvement with airflow distribution

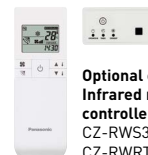Horizontal air flow reaches maximum 9,5 m. This is ideal for wide rooms.
The wide air discharge opening expands the air flow to the left and the right. The unpleasant feeling caused when the air flow directly hits the human body is prevented by the "Draft prevention position", which changes the swing width, so that the degree of comfort is increased.

CZ-RTC5B

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

CONEX

Optional controller. CONEX wired remote controller. CZ-RTC6 - CZ-RTC6BL - CZ-RTC6BLW

Optional controller. Infrared remote controller. CZ-RWS3 + CZ-RWRT3

Optional Econavi sensor. CZ-CENSC1

			Three phase			
			7,1 kW	10,0 kW	12,5 kW	14,0 kW
Kit			KIT-71PT3ZH8	KIT-100PT3ZH8	KIT-125PT3ZH8	KIT-140PT3ZH8
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	6,8 (2,2 - 9,0)	9,5 (3,1 - 12,5)	12,1 (3,2 - 14,0)	13,4 (3,3 - 16,0)
EER [1]		W/W	3,91	4,15	3,51	3,21
SEER / ηsc [2]			7,2 A++	7,2 A++	277,3 %	262,4 %
Pdesign		kW	6,8	9,5	12,1	13,4
Input power cooling		kW	1,74	2,29	3,45	4,17
Annual energy consumption [3]		kWh/a	331	462	—	—
Heating capacity	Nominal (Min - Max)	kW	8,0 (2,0 - 9,0)	11,2 (3,1 - 14,0)	14,0 (3,2 - 16,0)	16,0 (3,3 - 18,0)
COP [1]		W/W	3,96	4,09	3,78	3,48
SCOP / ηsc [2]			4,7 A++	4,7 A++	180,9 %	178,0 %
Pdesign at -10 °C		kW	4,7	7,8	9,5	10,2
Input power heating		kW	2,02	2,74	3,7	4,6
Annual energy consumption [3]		kWh/a	1400	2324	—	—
Indoor unit			S-6071PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E
Air flow	Hi / Med / Lo	m³/min	21,0 / 18,0 / 15,5	30,0 / 25,0 / 23,0	34,0 / 28,0 / 24,0	35,0 / 29,0 / 25,0
Moisture removal volume		L/h	2,7	3,6	5,4	6,4
Sound pressure [4]	Hi / Med / Lo	dB(A)	39 / 35 / 30	42 / 37 / 34	46 / 40 / 35	47 / 41 / 36
Sound power	Hi / Med / Lo	dB(A)	57 / 53 / 48	60 / 55 / 52	64 / 58 / 53	65 / 59 / 54
Dimension	H x W x D	mm	235 x 1275 x 690	235 x 1590 x 690	235 x 1590 x 690	235 x 1590 x 690
Net weight		kg	34	40	40	40
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit			U-71PZH3E8	U-100PZH3E8	U-125PZH3E8	U-140PZH3E8
Power source		V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Current	Cool	A	2,90 - 2,80 - 2,70	3,80 - 3,65 - 3,45	5,70 - 5,40 - 5,20	6,90 - 6,55 - 6,30
	Heat	A	3,35 - 3,20 - 3,10	4,55 - 4,35 - 4,15	6,20 - 5,85 - 5,65	7,70 - 7,30 - 6,95
Air flow	Cool / Heat	m³/min	61,0 / 60,0	118,0 / 108,0	125,0 / 112,0	129,0 / 116,0
Sound pressure	Cool / Heat (Hi)	dB(A)	48 / 50	52 / 52	53 / 53	54 / 54
Sound power	Cool / Heat (Hi)	dB(A)	65 / 67	69 / 69	70 / 70	71 / 71
Dimension	H x W x D	mm	996 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340
Net weight		kg	65	98	98	98
Pipe diameter	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas pipe	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5 ~ 50	5 ~ 85	5 ~ 85	5 ~ 85
Elevation difference (in/out) [7]		m	15 / 30 [8]	15 / 30 [8]	15 / 30 [8]	15 / 30 [8]
Pipe length for additional gas		m	30	30	30	30
Additional gas amount		g/m	45	45	45	45
Refrigerant (R32) / CO_2 Eq.		kg / T	1,95 / 1,32	3,05 / 2,06	3,05 / 2,06	3,05 / 2,06
Operating range	Cool Min ~ Max	°C	-15 ~ +48	-20 ~ +48 [9]	-20 ~ +48 [9]	-20 ~ +48 [9]
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRT3	Infrared remote controller
CZ-CAPWFC1	Commercial Wi-Fi Adaptor

Accessories	
PAW-PACR3	Interfaces to run 3 units on Backup and alternative run
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy savings sensor

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the ηsc / ηsh values is calculated based on EN 14825. 3) Factory setting. 4) The sound pressure of the units shows the value measured of the position 1 m in front of the main body and 1 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) Connect the liquid socket tube (Ø6,35-Ø9,52) to the liquid tubing side indoor unit. 6) Connect the gas socket tube (Ø12,70-Ø15,88) to the gas tubing side indoor unit. 7) When installing the outdoor unit at a higher position than the indoor unit. 8) Outdoor unit located lower / outdoor unit located higher. 9) For models 100 ~ 140PZH3E5(8), it is possible to operate the lowest -20 °C in the computer rooms with the piping length of 30 m or less. * Recommended fuse for the indoor 3 A. ** Above values are in the case of nanoe™ X OFF.

R32   A++ 7,7 SEER   A++ 4,9 SCOP   INVERTER+   -20°C COOLING MODE   -20°C HEATING MODE   R22 R410A → R32 R22/R410A RENEWAL   OPTIONAL WI-FI   BMS CONNECTIVITY

SEER and SCOP: For S-3650PT3E + U-36PZH3E5. INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Heating Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

NEW 2021

nanoeX

nanoe™ X as a standard.

NEW PACi NX Series Standard ceiling Inverter+ • R32

Ceiling mounted units provide large and wide air distribution which is good for big rooms.
The height and depth of all capacities are the same for unified appearance in mixed installations.

			Single phase						
			3,6 kW	5,0 kW	6,0 kW	7,1 kW	10,0 kW	12,5 kW	14,0 kW
Kit			KIT-36PT3Z5	KIT-50PT3Z5	KIT-60PT3Z5	KIT-71PT3Z5	KIT-100PT3Z5	KIT-125PT3Z5	KIT-140PT3Z5
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min–Max)	kW	3,5 (1,5 – 4,0)	5,0 (1,5 – 5,2)	6,0 (2,0 – 7,1)	6,8 (2,6 – 7,7)	10,0 (3,0 – 11,5)	12,5 (3,2 – 13,5)	14,0 (3,3 – 15,0)
EER [1]		W/W	4,14	3,03	3,59	3,24	3,64	3,32	2,98
SEER / ηsc [2]			7,2 A++	6,7 A++	7,3 A++	5,9 A+	6,6 A++	241,7 %	228,8 %
Pdesign		kW	3,5	5,0	6,0	6,8	10,0	12,5	14,0
Input power cooling		kW	0,85	1,65	1,67	2,10	2,75	3,76	4,70
Annual energy consumption [3]		kWh/a	171	262	288	404	531	—	—
Heating capacity	Nominal (Min–Max)	kW	3,5 (1,5 – 4,6)	5,0 (1,5 – 6,4)	6,0 (1,8 – 7,0)	6,8 (2,1 – 8,1)	10,0 (3,0 – 14,0)	12,5 (3,3 – 15,0)	14,0 (3,4 – 16,0)
COP [1]		W/W	4,61	3,73	4,11	4,20	4,24	3,89	3,70
SCOP / ηsc [2]			4,4 A+	4,1 A+	4,6 A++	4,3 A+	4,2 A+	147,4 %	145,3 %
Pdesign at -10 °C		kW	2,8	4,0	4,6	4,7	10,0	12,5	13,6
Input power heating		kW	0,76	1,34	1,46	1,62	2,36	3,21	3,78
Annual energy consumption [3]		kWh/a	891	1365	1399	1529	3331	—	—
Indoor unit			S-3650PT3E	S-3650PT3E	S-6071PT3E	S-6071PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E
Air flow	Hi / Med / Lo	m³/min	14,0 / 12,0 / 10,5	15,0 / 12,5 / 10,5	20,0 / 17,0 / 14,5	21,0 / 18,0 / 15,5	30,0 / 25,0 / 23,0	34,0 / 28,0 / 24,0	35,0 / 29,0 / 25,0
Moisture removal volume		L/h	0,8	2,0	2,1	2,7	4,1	5,7	6,9
Sound pressure [4]	Hi / Med / Lo	dB(A)	36 / 32 / 28	37 / 33 / 28	38 / 34 / 29	39 / 35 / 30	42 / 37 / 34	46 / 40 / 35	47 / 41 / 36
Sound power	Hi / Med / Lo	dB(A)	54 / 50 / 46	55 / 51 / 46	56 / 52 / 47	57 / 53 / 48	60 / 55 / 52	64 / 58 / 53	65 / 59 / 54
Dimension	H x W x D	mm	235 x 960 x 690	235 x 960 x 690	235 x 1275 x 690	235 x 1275 x 690	235 x 1590 x 690	235 x 1590 x 690	235 x 1590 x 690
Net weight		kg	26	26	34	34	40	40	40
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit			U-36PZ3E5	U-50PZ3E5	U-60PZ3E5A	U-71PZ3E5A	U-100PZ3E5	U-125PZ3E5	U-140PZ3E5
Power source		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	A	3,90 - 3,75 - 3,60	7,65 - 7,30 - 7,00	7,75 - 7,40 - 7,10	9,75 - 9,30 - 8,95	13,70-13,10-12,60	18,20-17,40-16,70	22,70-21,70-20,80
	Heat	A	3,55 - 3,40 - 3,25	6,30 - 6,00 - 5,75	6,75 - 6,50 - 6,20	7,50 - 7,20 - 6,90	11,80-11,30-10,80	15,50-14,80-14,20	18,30-17,50-16,80
Air flow	Cool / Heat	m³/min	33,6 / 34,0	32,7 / 31,9	42,6 / 41,5	44,7 / 45,9	73,0 / 73,0	82,0 / 80,0	84,0 / 82,0
Sound pressure	Cool / Heat (Hi)	dB(A)	46 / 47	46 / 46	47 / 48	48 / 49	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB(A)	64 / 66	64 / 64	64 / 65	66 / 68	70 / 70	73 / 73	74 / 74
Dimension	H x W x D	mm	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	32	35	42	50	83	87	87
Pipe diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) [5]	1/4 (6,35) [5]	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas pipe	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) [6]	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	3 ~ 15	3 ~ 20	3 ~ 40	3 ~ 40	5 ~ 50	5 ~ 50	5 ~ 50
Elevation difference (in/out) [7]		m	15 / 15 [8]	15 / 15 [8]	15 / 30 [8]	20 / 30 [8]	15 / 30 [8]	15 / 30 [8]	15 / 30 [8]
Pipe length for additional gas		m	7,5	7,5	30	30	30	30	30
Additional gas amount		g/m	10	15	15	17	45	45	45
Refrigerant (R32) / CO_2 Eq.		kg / T	0,87 / 0,59	1,14 / 0,77	1,15 / 0,78	1,32 / 0,89	2,40 / 1,62	2,80 / 1,89	2,80 / 1,89
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

Technical focus

· Wide air distribution for large rooms
· Horizontal air flow reaches maximum 9,5 m
· Fresh air connection available on the unit
· Slim design with 235 mm height fits narrow space
· Silent operation
· nanoe™ X (Generator Mark 2= 9,6 trillion hydroxyl radicals/sec) as standard for better indoor air quality
· Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®
· Single and twin options
· Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

Further comfort improvement with airflow distribution

Horizontal air flow reaches maximum 9,5 m. This is ideal for wide rooms.
The wide air discharge opening expands the air flow to the left and the right. The unpleasant feeling caused when the air flow directly hits the human body is prevented by the "Draft prevention position", which changes the swing width, so that the degree of comfort is increased.
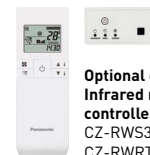
CZ-RTC5B

CONEX

Optional controller. CONEX wired remote controller. CZ-RTC6 - CZ-RTC6BL - CZ-RTC6BLW

Optional controller. Infrared remote controller. CZ-RWS3 + CZ-RWRT3

Optional Econavi sensor. CZ-CENSC1

			Three phase		
			10,0 kW	**12,5 kW**	**14,0 kW**
Kit			**KIT-100PT3Z8**	**KIT-125PT3Z8**	**KIT-140PT3Z8**
Remote controller			**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**
Cooling capacity	Nominal (Min - Max)	kW	10,0 (3,0 - 11,5)	12,5 (3,2 - 13,5)	14,0 (3,3 - 15,0)
EER [1]		W/W	3,64	3,32	2,98
SEER / ηsc [2]			**6,5 A++**	**240,9 %**	**228,1 %**
Pdesign		kW	10,0	12,5	14,0
Input power cooling		kW	2,75	3,76	4,70
Annual energy consumption [3]		kWh/a	537	—	—
Heating capacity	Nominal (Min - Max)	kW	10,0 (3,0 - 14,0)	12,5 (3,3 - 15,0)	14,0 (3,4 - 16,0)
COP [1]		W/W	4,24	3,89	3,70
SCOP / ηsc [2]			**4,2 A+**	**147,4 %**	**145,3 %**
Pdesign at -10 °C		kW	10,0	12,5	13,6
Input power heating		kW	2,36	3,21	3,78
Annual energy consumption [3]		kWh/a	3331	—	—
Indoor unit			**S-1014PT3E**	**S-1014PT3E**	**S-1014PT3E**
Air flow	Hi / Med / Lo	m³/min	30,0 / 25,0 / 23,0	34,0 / 28,0 / 24,0	35,0 / 29,0 / 25,0
Moisture removal volume		L/h	4,1	5,7	6,9
Sound pressure [4]	Hi / Med / Lo	dB(A)	42 / 37 / 34	46 / 40 / 35	47 / 41 / 36
Sound power	Hi / Med / Lo	dB(A)	60 / 55 / 52	64 / 58 / 53	65 / 59 / 54
Dimension	H x W x D	mm	235 x 1590 x 690	235 x 1590 x 690	235 x 1590 x 690
Net weight		kg	40	40	40
nanoe X Generator			Mark 2	Mark 2	Mark 2
Outdoor unit			**U-100PZ3E8**	**U-125PZ3E8**	**U-140PZ3E8**
Power source		V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Current	Cool	A	4,60 - 4,35 - 4,20	6,10 - 5,75 - 5,55	7,60 - 7,20 - 6,95
	Heat	A	3,95 - 3,75 - 3,60	5,20 - 4,95 - 4,75	6,10 - 5,80 - 5,60
Air flow	Cool / Heat	m³/min	73,0 / 73,0	82,0 / 80,0	84,0 / 82,0
Sound pressure	Cool / Heat (Hi)	dB(A)	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB(A)	70 / 70	73 / 73	74 / 74
Dimension	H x W x D	mm	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	83	87	87
Pipe diameter	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas pipe	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5 ~ 50	5 ~ 50	5 ~ 50
Elevation difference (in/out) [7]		m	15 / 30 [8]	15 / 30 [8]	15 / 30 [8]
Pipe length for additional gas		m	30	30	30
Additional gas amount		g/m	45	45	45
Refrigerant (R32) / CO_2 Eq.		kg / T	2,40 / 1,62	2,80 / 1,89	2,80 / 1,89
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRT3	Infrared remote controller
CZ-CAPWFC1	Commercial Wi-Fi Adaptor

Accessories	
PAW-PACR3	Interfaces to run 3 units on Backup and alternative run
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy savings sensor

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the ηsc / ηsh values is calculated based on EN 14825. 3) Factory setting. 4) The sound pressure of the units shows the value measured of the position 1 m in front of the main body and 1 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) Connect the liquid socket tube (Ø6,35-Ø9,52) to the liquid tubing side indoor unit. 6) Connect the gas socket tube (Ø12,70-Ø15,88) to the gas tubing side indoor unit. 7) When installing the outdoor unit at a higher position than the indoor unit. 8) Outdoor unit located lower / outdoor unit located higher. * Recommended fuse for the indoor 3 A. ** Above values are in the case of nanoe™ X OFF.

R32   A++ 7,3 SEER   A++ 4,6 SCOP   INVERTER +   -10°C COOLING MODE   -15°C HEATING MODE   R22 R410A / R32 R22/R410A RENEWAL   OPTIONAL WI-FI   BMS CONNECTIVITY

SEER and SCOP: For S-6071PT3E + U-60PZ3E5A. INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Heating Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.com.

NEW 2021

nanoeX
nanoe™ X as a standard.

NEW PACi NX Series Elite adaptive ducted unit Inverter+ • R32

New design duct range PF3.
2 installation possibilities (horizontal / vertical) with high ESP 150Pa allows flexible installation.

			Single phase						
			3,6 kW	5,0 kW	6,0 kW	7,1 kW	10,0 kW	12,5 kW	14,0 kW
Kit			KIT-36PFH3Z5	KIT-50PFH3Z5	KIT-60PFH3Z5	KIT-71PFH3Z5	KIT-100PFH3Z5	KIT-125PFH3Z5	KIT-140PFH3Z5
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	3,6 (1,2 - 4,0)	5,0 (1,2 - 5,6)	5,7 (1,2 - 6,3)	6,8 (2,2 - 7,8)	9,5 (3,1 - 11,4)	12,1 (3,2 - 13,6)	13,4 (3,3 - 15,3)
EER [1]		W/W	4,24	3,42	3,68	3,74	4,17	3,58	3,38
SEER / ηsc [2]			6,8 A++	6,1 A++	7,1 A++	7,1 A++	7,4 A++	281,7 %	275,9 %
Pdesign		kW	3,6	5,0	5,7	6,8	9,5	12,1	13,4
Input power cooling		kW	0,850	1,46	1,55	1,82	2,28	3,38	3,96
Annual energy consumption [3]		kWh/a	185	287	281	332	447	—	—
Heating capacity	Nominal (Min - Max)	kW	4,0 (1,2 - 5,0)	5,6 (1,2 - 6,5)	7,0 (1,2 - 8,0)	7,5 (2,0 - 9,0)	10,8 (3,1 - 13,5)	13,5 (3,2 - 15,4)	15,5 (3,3 - 17,4)
COP [1]		W/W	4,17	3,61	3,74	4,03	3,97	3,46	3,44
SCOP / ηsc [2]			4,5 A+	4,2 A+	4,4 A+	4,7 A++	4,5 A+	170,0 %	171,0 %
Pdesign at -10 °C		kW	3,6	4,0	4,7	4,7	7,8	9,3	9,5
Input power heating		kW	0,96	1,55	1,87	1,86	2,72	3,90	4,51
Annual energy consumption [3]		kWh/a	1120	1333	1495	1393	2424	—	—
Indoor unit			S-3650PF3E	S-3650PF3E	S-6071PF3E	S-6071PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E
External static pressure [4]	Nominal (Min - Max)	Pa	30 (10 - 150)	30 (10 - 150)	30 (10 - 150)	30 (10 - 150)	40 (10 - 150)	50 (10 - 150)	50 (10 - 150)
Air flow	Hi / Med / Lo	m³/min	14,0 / 13,0 / 10,0	16,0 / 15,0 / 12,0	21,0 / 19,0 / 15,0	21,0 / 19,0 / 15,0	32,0 / 26,0 / 21,0	34,0 / 29,0 / 23,0	36,0 / 32,0 / 25,0
Moisture removal volume		L/h	0,9	1,9	1,7	2,7	3,2	4,1	4,9
Sound pressure [5]	Hi / Med / Lo	dB(A)	30 / 27 / 22	34 / 30 / 25	30 / 26 / 23	30 / 26 / 23	33 / 29 / 25	35 / 31 / 27	39 / 35 / 29
Sound power	Hi / Med / Lo	dB(A)	53 / 50 / 45	57 / 53 / 48	53 / 49 / 46	53 / 49 / 46	56 / 52 / 48	58 / 54 / 50	62 / 58 / 52
Dimension	H x W x D	mm	250 x 800 x 730	250 x 800 x 730	250 x 1000 x 730	250 x 1000 x 730	250 x 1400 x 730	250 x 1400 x 730	250 x 1400 x 730
Net weight		kg	25	25	30	30	39	39	39
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit			U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH3E5	U-100PZH3E5	U-125PZH3E5	U-140PZH3E5
Power source		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	A	4,20 - 4,00 - 3,85	6,90 - 6,60 - 6,35	7,25 - 6,95 - 6,65	9,00 - 8,60 - 8,25	11,10 - 10,80 - 10,30	16,50 - 15,80 - 15,10	19,60 - 18,70 - 17,90
	Heat	A	4,70 - 4,50 - 4,30	7,35 - 7,00 - 6,75	8,65 - 8,30 - 7,95	9,00 - 8,60 - 8,35	13,30 - 12,70 - 12,20	19,10 - 18,20 - 17,50	22,00 - 21,10 - 20,20
Air flow	Cool / Heat	m³/min	34,1 / 36,4	42,0 / 42,0	42,0 / 42,0	61,0 / 60,0	118,0 / 108,0	125,0 / 112,0	129,0 / 116,0
Sound pressure	Cool / Heat (Hi)	dB(A)	43 / 44	46 / 48	47 / 50	48 / 50	52 / 52	53 / 53	54 / 54
Sound power	Cool / Heat (Hi)	dB(A)	62 / 64	64 / 67	65 / 69	65 / 67	69 / 69	70 / 70	71 / 71
Dimension	H x W x D	mm	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320	996 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340
Net weight		kg	42	42	43	65	98	98	98
Pipe diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) [6]	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas pipe	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) [7]	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	3 ~ 40	3 ~ 40	3 ~ 40	5 ~ 50	5 ~ 85	5 ~ 85	5 ~ 85
Elevation difference (in/out) [8]		m	15 / 30 [8]	15 / 30 [8]	15 / 30 [9]	15 / 30 [9]	15 / 30 [9]	15 / 30 [9]	15 / 30 [9]
Pipe length for additional gas		m	30	30	30	30	30	30	30
Additional gas amount		g/m	15	15	15	45	45	45	45
Refrigerant (R32) / CO_2 Eq.		kg / T	1,13 / 0,76	1,13 / 0,76	1,15 / 0,78	1,95 / 1,32	3,05 / 2,06	3,05 / 2,06	3,05 / 2,06
Operating range	Cool Min ~ Max	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +48	-20 ~ +48 [10]	-20 ~ +48 [10]	-20 ~ +48 [10]
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24

Technical focus

· 2 installation possibilities (horizontal / vertical)
· Maximum external static pressure: 150 Pa
· Selectable inlet air position (rear / bottom entry)
· Improved drain pan suitable for both horizontal / vertical installation
· Drain pump included
· nanoe™ X (Generator Mark 2= 9,6 trillion hydroxyl radicals/sec) as standard for the long duct piping case*
· Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®

* The performance of nanoe™ X air can be expected even by 10 m long duct by Panasonic internal survey.

2 installation possibilities (horizontal / vertical)

Vertical installation is newly available. ESP 150Pa, sufficient for remotely installing units away from the rooms.

Improved drain pan design

Drain pan is shared in both cases horizontal and vertical installation.
No need to alternate anymore.

Horizontal
Shared drain pan
Vertical

CZ-RTC5B

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

CONEX

Optional controller. CONEX wired remote controller. CZ-RTC6 - CZ-RTC6BL - CZ-RTC6BLW

Optional controller. Infrared remote controller. CZ-RWS3 + CZ-RWRC3

Optional Econavi sensor. CZ-CENSC1

			Three phase			
			7,1 kW	**10,0 kW**	**12,5 kW**	**14,0 kW**
Kit			KIT-71PFH3Z8	KIT-100PFH3Z8	KIT-125PFH3Z8	KIT-140PFH3Z8
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	6,8 (2,2 - 7,8)	9,5 (3,1 - 11,4)	12,1 (3,2 - 13,6)	13,4 (3,3 - 15,3)
EER [1]		W/W	3,74	4,17	3,58	3,38
SEER / ηsc [2]			**7,0 A++**	**7,3 A++**	**281,0 %**	**275,2 %**
Pdesign		kW	6,8	9,5	12,1	13,4
Input power cooling		kW	1,82	2,28	3,38	3,96
Annual energy consumption [3]		kWh/a	338	451	—	—
Heating capacity	Nominal (Min - Max)	kW	7,5 (2,0 - 9,0)	10,8 (3,1 - 13,5)	13,5 (3,2 - 15,4)	15,5 (3,3 - 17,4)
COP [1]		W/W	4,03	3,97	3,46	3,44
SCOP / ηsc [2]			**4,7 A++**	**4,5 A+**	**170,0 %**	**171,0 %**
Pdesign at -10 °C		kW	4,7	7,8	9,3	9,5
Input power heating		kW	1,86	2,72	3,9	4,51
Annual energy consumption [3]		kWh/a	1394	2424	—	—
Indoor unit			**S-6071PF3E**	**S-1014PF3E**	**S-1014PF3E**	**S-1014PF3E**
External static pressure [4]	Nominal (Min - Max)	Pa	30 (10 - 150)	40 (10 - 150)	50 (10 - 150)	50 (10 - 150)
Air flow	Hi / Med / Lo	m³/min	21,0 / 19,0 / 15,0	32,0 / 26,0 / 21,0	34,0 / 29,0 / 23,0	36,0 / 32,0 / 25,0
Moisture removal volume		L/h	2,7	3,2	4,1	4,9
Sound pressure [5]	Hi / Med / Lo	dB(A)	30 / 26 / 23	33 / 29 / 25	35 / 31 / 27	39 / 35 / 29
Sound power	Hi / Med / Lo	dB(A)	53 / 49 / 46	56 / 52 / 48	58 / 54 / 50	62 / 58 / 52
Dimension	H x W x D	mm	250 x 1000 x 730	250 x 1400 x 730	250 x 1400 x 730	250 x 1400 x 730
Net weight		kg	30	39	39	39
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit			**U-71PZH3E8**	**U-100PZH3E8**	**U-125PZH3E8**	**U-140PZH3E8**
Power source		V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Current	Cool	A	3,00 - 2,90 - 2,80	3,80 - 3,60 - 3,50	5,60 - 5,30 - 5,15	6,60 - 6,30 - 6,05
	Heat	A	3,05 - 2,95 - 2,85	4,50 - 4,30 - 4,15	6,45 - 6,10 - 5,90	7,55 - 7,15 - 6,90
Air flow	Cool / Heat	m³/min	61,0 / 60,0	118,0 / 108,0	125,0 / 112,0	129,0 / 116,0
Sound pressure	Cool / Heat (Hi)	dB(A)	48 / 50	52 / 52	53 / 53	54 / 54
Sound power	Cool / Heat (Hi)	dB(A)	65 / 67	69 / 69	70 / 70	71 / 71
Dimension	H x W x D	mm	996 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340
Net weight		kg	65	98	98	98
Pipe diameter	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas pipe	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5 ~ 50	5 ~ 85	5 ~ 85	5 ~ 85
Elevation difference (in/out) [8]		m	15 / 30 [9]	15 / 30 [9]	15 / 30 [9]	15 / 30 [9]
Pipe length for additional gas		m	30	30	30	30
Additional gas amount		g/m	45	45	45	45
Refrigerant (R32) / CO$_2$ Eq.		kg / T	1,95 / 1,32	3,05 / 2,06	3,05 / 2,06	3,05 / 2,06
Operating range	Cool Min ~ Max	°C	-15 ~ +48	-20 ~ +48 [10]	-20 ~ +48 [10]	-20 ~ +48 [10]
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRC3	Infrared remote controller
CZ-CAPWFC1	Commercial Wi-Fi Adaptor
PAW-PACR3	Interfaces to run 3 units on Backup and alternative run

Accessories	
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy savings sensor
CZ-56DAF2	Air outlet plenum for S-3650PF3E
CZ-90DAF2	Air outlet plenum for S-6071PF3E
CZ-160DAF2	Air outlet plenum for S-1014PF3E

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the ηsc / ηsh values is calculated based on EN 14825. 3) Factory setting. 4) Medium external static pressure setting from factory. 5) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) Connect the liquid socket tube (Ø6,35-Ø9,52) to the liquid tubing side indoor unit. 7) Connect the gas socket tube (Ø12,70-Ø15,88) to the gas tubing side indoor unit. 8) When installing the outdoor unit at a higher position than the indoor unit. 9) Outdoor unit located lower / outdoor unit located higher. 10) For models 100 ~ 140PZH3E5(8), it is possible to operate the lowest -20 °C in the computer rooms with the piping length of 30 m or less. * Recommended fuse for the indoor 3 A. ** Above values are in the case of standard installation(horizontal installation in the celling, rear side air intake) and nanoe™ X OFF.

R32 | A++ 7,1 SEER | A++ 4,7 SCOP | INVERTER+ | -20°C COOLING MODE | -20°C HEATING MODE | nanoeX | 22dB(A) | DC FAN | FILTER INCLUDED | R22 R410A · R22 R22/R410A RENEWAL | OPTIONAL WI-FI | BMS CONNECTIVITY

SEER and SCOP: For S-6071PF3E + U-71PZH3E5. SUPER QUIET: For S-3650PF3E + U-36PZH3E5. INTERNET CONTROL: Optional.

NEW 2021

nanoeX

nanoe™ X as a standard.

NEW PACi NX Series Standard adaptive ducted unit Inverter+ • R32

New design duct range PF3.
2 installation possibilities (horizontal / vertical) with high ESP 150Pa allows flexible installation.

			Single phase						
			3,6 kW	5,0 kW	6,0 kW	7,1 kW	10,0 kW	12,5 kW	14,0 kW
Kit			KIT-36PF3Z5	KIT-50PF3Z5	KIT-60PF3Z5	KIT-71PF3Z5	KIT-100PF3Z5	KIT-125PF3Z5	KIT-140PF3Z5
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	3,4 (1,5 - 4,0)	5,0 (1,5 - 5,3)	5,7 (2,0 - 6,3)	6,8 (2,6 - 7,7)	9,5 (3,0 - 11,4)	12,1 (3,2 - 13,5)	13,4 (3,3 - 15,0)
EER [1]	Nominal (Min - Max)	W/W	3,78	2,78	3,54	3,18	3,57 (5,08 - 2,36)	3,40 (5,08 - 2,76)	3,16 (5,08 - 2,56)
SEER / ηsc [2]			6,0 A+	6,5 A++	6,4 A++	6,0 A+	6,6 A++	257,4 %	252,2 %
Pdesign		kW	3,4	5,0	5,7	6,8	9,5	12,1	13,4
Input power cooling	Nominal (Min - Max)	kW	0,9	1,8	1,61	2,14	2,66 (0,59 - 4,84)	3,56 (0,63 - 4,90)	4,24 (0,65 - 5,86)
Annual energy consumption [3]		kWh/a	198	267	310	391	502	—	—
Heating capacity	Nominal (Min - Max)	kW	3,4 (1,5 - 4,6)	5,0 (1,5 - 5,9)	5,7 (1,8 - 7,0)	6,8 (2,1 - 8,1)	9,5 (3,0 - 13,5)	12,1 (3,3 - 15,0)	13,4 (3,4 - 16,0)
COP [1]	Nominal (Min - Max)	W/W	4,15	3,62	4,04	4,00	4,09 (5,08 - 3,00)	3,56 (5,24 - 3,16)	3,76 (5,23 - 3,03)
SCOP / ηsc [2]			4,0 A+	4,0 A+	4,4 A+	4,1 A+	3,9 A	142,6 %	140,6 %
Pdesign at -10 °C		kW	2,4	3,8	4,4	4,7	7,8	9,3	9,5
Input power heating	Nominal (Min - Max)	kW	0,82	1,38	1,41	1,7	2,32 (0,59 - 4,50)	3,40 (0,63 - 4,74)	3,56 (0,65 - 5,28)
Annual energy consumption [3]		kWh/a	839	1303	1376	1591	2795	—	—
Indoor unit			S-3650PF3E	S-3650PF3E	S-6071PF3E	S-6071PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E
External static pressure [4]	Nominal (Min - Max)	Pa	30 (10 - 150)	30 (10 - 150)	30 (10 - 150)	30 (10 - 150)	40 (10 - 150)	50 (10 - 150)	50 (10 - 150)
Air flow	Hi / Med / Lo	m³/min	14,0/13,0/10,0	16,0/15,0/12,0	21,0/19,0/15,0	21,0/19,0/15,0	32,0/26,0/21,0	34,0/29,0/23,0	36,0/32,0/25,0
Moisture removal volume		L/h	0,9	1,9	1,7	2,7	3,2	4,1	4,9
Sound pressure [5]	Hi / Med / Lo	dB(A)	30/27/22	34/30/25	30/26/23	30/26/23	33/29/25	35/31/27	39/35/29
Sound power	Hi / Med / Lo	dB(A)	53/50/45	57/53/48	53/49/46	53/49/46	56/52/48	58/54/50	62/58/52
Dimension	H x W x D	mm	250 x 800 x 730	250 x 800 x 730	250 x 1000 x 730	250 x 1000 x 730	250 x 1400 x 730	250 x 1400 x 730	250 x 1400 x 730
Net weight		kg	25	25	30	30	39	39	39
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit			U-36PZ3E5	U-50PZ3E5	U-60PZ3E5A	U-71PZ3E5A	U-100PZ3E5	U-125PZ3E5	U-140PZ3E5
Power source		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	A	4,15-4,00-3,85	8,35-8,00-7,65	7,45-7,15-6,85	9,95-9,50-9,10	13,30-12,70-12,20	17,20-16,40-15,80	20,50-19,60-18,8
	Heat	A	3,85-3,70-3,50	6,45-6,20-5,95	6,55-6,25-6,00	7,90-7,55-7,25	11,60-11,10-10,60	16,40-15,70-15,00	17,20-16,40-15,80
Air flow	Cool / Heat	m³/min	33,6/34,0	32,7/31,9	42,6/41,5	44,7/45,9	73,0/73,0	82,0/80,0	84,0/82,0
Sound pressure	Cool / Heat (Hi)	dB(A)	46/47	46/46	47/48	48/49	52/52	55/55	56/56
Sound power	Cool / Heat (Hi)	dB(A)	64/66	64/64	64/65	66/68	70/70	73/73	74/74
Dimension	H x W x D	mm	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	32	35	42	50	83	87	87
Pipe diameter	Liquid pipe	Inch (mm)	1/4 (Ø6,35)	1/4 (Ø6,35)	1/4 (Ø6,35) [6]	1/4 (Ø6,35) [6]	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas pipe	Inch (mm)	1/2 (Ø12,7)	1/2 (Ø12,7)	1/2 (Ø12,7) [7]	5/8 (Ø15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	3 - 15	3 - 20	3 - 40	3 - 40	5 ~ 50	5 ~ 50	5 ~ 50
Elevation difference (in/out) [8]		m	15 / 15 [9]	15 / 15 [9]	15 / 30 [9]	20 / 30 [9]	15 / 30 [9]	15 / 30 [9]	15 / 30 [9]
Pipe length for additional gas		m	7,5	7,5	30	30	30	30	30
Additional gas amount		g/m	10	15	15	17	45	45	45
Refrigerant (R32) / CO₂ Eq.		kg / T	0,87 / 0,59	1,14 / 0,77	1,15 / 0,78	1,32 / 0,89	2,40 / 1,62	2,80 / 1,89	2,80 / 1,89
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

Technical focus

· 2 installation possibilities (horizontal / vertical)
· Maximum external static pressure: 150 Pa
· Selectable inlet air position (rear / bottom entry)
· Improved drain pan suitable for both horizontal / vertical installation
· Drain pump included
· nanoe™ X (Generator Mark 2= 9,6 trillion hydroxyl radicals/sec) as standard for the long duct piping case*
· Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®

* The performance of nanoe™ X air can be expected even by 10 m long duct by Panasonic internal survey.

2 installation possibilities (horizontal / vertical)

Vertical installation is newly available. ESP 150Pa, sufficient for remotely installing units away from the rooms.

Improved drain pan design

Drain pan is shared in both cases horizontal and vertical installation.
No need to alternate anymore.

Horizontal
Shared drain pan
Vertical

CZ-RTC5B

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

CONEX

25,0℃

Optional controller. CONEX wired remote controller. CZ-RTC6 - CZ-RTC6BL - CZ-RTC6BLW

Optional controller. Infrared remote controller. CZ-RWS3 + CZ-RWRC3

Optional Econavi sensor. CZ-CENSC1

			Three phase		
			10,0 kW	12,5 kW	14,0 kW
Kit			KIT-100PF3Z8	KIT-125PF3Z8	KIT-140PF3Z8
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	9,5 (3,0 - 11,4)	12,1 (3,2 - 13,5)	13,4 (3,3 - 15,0)
EER [1]	Nominal (Min - Max)	W/W	3,57 (5,08 - 2,36)	3,40 (5,08 - 2,76)	3,16 (5,08 - 2,56)
SEER / ηsc [2]			6,5 A++	256,2 %	251,4 %
Pdesign		kW	9,5	12,1	13,4
Input power cooling	Nominal (Min - Max)	kW	2,66 (0,59 - 4,84)	3,56 (0,63 - 4,90)	4,24 (0,65 - 5,86)
Annual energy consumption [3]		kWh/a	508	—	—
Heating capacity	Nominal (Min - Max)	kW	9,5 (3,0 - 13,5)	12,1 (3,3 - 15,0)	13,4 (3,4 - 16,0)
COP [1]	Nominal (Min - Max)	W/W	4,09 (5,08 - 3,00)	3,56 (5,24 - 3,16)	3,76 (5,23 - 3,03)
SCOP / ηsc [2]			3,9 A	142,6 %	140,6 %
Pdesign at -10 °C		kW	7,8	9,3	9,5
Input power heating	Nominal (Min - Max)	kW	2,32 (0,59 - 4,50)	3,40 (0,63 - 4,74)	3,56 (0,65 - 5,28)
Annual energy consumption [3]		kWh/a	2795	—	—
Indoor unit			S-1014PF3E	S-1014PF3E	S-1014PF3E
External static pressure [4]	Nominal (Min - Max)	Pa	40 (10 - 150)	50 (10 - 150)	50 (10 - 150)
Air flow	Hi / Med / Lo	m³/min	32,0 / 26,0 / 21,0	34,0 / 29,0 / 23,0	36,0 / 32,0 / 25,0
Moisture removal volume		L/h	3,2	4,1	4,9
Sound pressure [5]	Hi / Med / Lo	dB(A)	33 / 29 / 25	35 / 31 / 27	39 / 35 / 29
Sound power	Hi / Med / Lo	dB(A)	56 / 52 / 48	58 / 54 / 50	62 / 58 / 52
Dimension	H x W x D	mm	250 x 1400 x 730	250 x 1400 x 730	250 x 1400 x 730
Net weight		kg	39	39	39
nanoe X Generator			Mark 2	Mark 2	Mark 2
Outdoor unit			U-100PZ3E8	U-125PZ3E8	U-140PZ3E8
Power source		V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Current	Cool	A	4,45 - 4,20 - 4,05	5,75 - 5,45 - 5,25	6,85 - 6,50 - 6,30
	Heat	A	3,85 - 3,70 - 3,55	5,50 - 5,20 - 5,05	5,75 - 5,45 - 5,25
Air flow	Cool / Heat	m³/min	73,0 / 73,0	82,0 / 80,0	84,0 / 82,0
Sound pressure	Cool / Heat (Hi)	dB(A)	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB(A)	70 / 70	73 / 73	74 / 74
Dimension	H x W x D	mm	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	83	87	87
Pipe diameter	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas pipe	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5 ~ 50	5 ~ 50	5 ~ 50
Elevation difference (in/out) [8]		m	15/30 [9]	15/30 [9]	15/30 [9]
Pipe length for additional gas		m	30	30	30
Additional gas amount		g/m	45	45	45
Refrigerant (R32) / CO_2 Eq.		kg / T	2,40 / 1,62	2,80 / 1,89	2,80 / 1,89
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRC3	Infrared remote controller
CZ-CAPWFC1	Commercial Wi-Fi Adaptor
PAW-PACR3	Interfaces to run 3 units on Backup and alternative run

Accessories	
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy savings sensor
CZ-56DAF2	Air outlet plenum for S-3650PF3E
CZ-90DAF2	Air outlet plenum for S-6071PF3E
CZ-160DAF2	Air outlet plenum for S-1014PF3E

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the ηsc / ηsh values is calculated based on EN 14825. 3) Factory setting. 4) Medium external static pressure setting from factory. 5) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) Connect the liquid socket tube (Ø6,35-Ø9,52) to the liquid tubing side indoor unit. 7) Connect the gas socket tube (Ø12,70-Ø15,88) to the gas tubing side indoor unit. 8) When installing the outdoor unit at a higher position than the indoor unit. 9) Outdoor unit located lower / outdoor unit located higher. * Recommended fuse for the indoor 3 A. ** Above values are in the case of standard installation(horizontal installation in the celling, rear side air intake) and nanoe™ X OFF.

R32 | A++ 6,6 SEER | A+ 4,4 SCOP | INVERTER+ | -10°C COOLING MODE | -15°C HEATING MODE | nanoeX | 22dB(A) | DC FAN | FILTER INCLUDED | R22 R410A / R22 R410A RENEWAL | OPTIONAL WI-FI | BMS CONNECTIVITY

SEER: For S-1014PF3E + U-100PZ3E5. SCOP: For S-6071PF3E + U-60PZ3E5A. SUPER QUIET: For S-3650PF3E + U-36PZ3E5. INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Heating Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.com.

CZ-RTC5B

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

CONEX
25.0c

Optional controller. CONEX wired remote controller. CZ-RTC6 - CZ-RTC6BL

Optional controller. Infrared remote controller. CZ-RWS3 + CZ-RWRC3

Optional Econavi sensor. CZ-CENSC1

			Three phase	
			20,0 kW	25,0 kW
Kit			KIT-200PE3ZH8	KIT-250PE3ZH8
Remote controller			CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	19,5 (5,7 - 21,0)	23,2 (6,1 - 27,0)
EER [1]		W/W	3,22	3,11
SEER / ηsc [2]			207,0 %	190,6 %
Pdesign		kW	19,5	23,2
Input power cooling		kW	6,06	7,46
Heating capacity	Nominal (Min - Max)	kW	22,4 (5,0 - 25,0)	28,0 (5,5 - 29,0)
COP [1]		W/W	3,61	3,41
SCOP / ηsc [2]			141,3 %	142,7 %
Pdesign at -10 °C		kW	17,0	20,0
Input power heating		kW	6,21	8,21
Indoor unit			S-200PE3E5B	S-250PE3E5B
Power source		V / ph / Hz	220 - 230 - 240 / 1 / 50	220 - 230 - 240 / 1 / 50
External static pressure at shipment (adjustable)		Pa	75 [3] - 120 - 180	75 [3] - 130 - 200
Air flow	Hi / Med / Lo	m³/min	72 / 63 / 53	84 / 72 / 59
Sound pressure [4]	Hi / Med / Lo	dB(A)	46 / 44 / 41	47 / 45 / 42
Dimension	H x W x D	mm	486 x 1456 x 916	486 x 1456 x 916
Net weight		kg	86	88
Outdoor unit			U-200PZH2E8	U-250PZH2E8
Power source		V / ph / Hz	380 - 400 - 415 / 3 / 50	380 - 400 - 415 / 3 / 50
Recommended fuse		A	30	30
Air flow	Cool / Heat	m³/min	164 / 164	160 / 160
Sound pressure	Cool / Heat (Hi)	dB(A)	59 / 61	59 / 63
Sound power	Cool / Heat (Hi)	dB(A)	77 / 79	78 / 82
Dimension [5]	H x W x D	mm	1500 x 980 x 370	1500 x 980 x 370
Net weight		kg	117	128
Pipe diameter	Liquid pipe	Inch (mm)	3/8 (9,52)	1/2 (12,70)
	Gas pipe	Inch (mm)	1 (25,40)	1 (25,40)
Pipe length range		m	5 ~ 90	5 ~ 60
Elevation difference (in/out) [6]		m	30	30
Pipe length for additional gas		m	30	30
Additional gas amount		g/m	60	80
Refrigerant (R32) / CO_2 Eq.		kg / T	4,20 / 2,835	5,20 / 3,51
Operating range	Cool Min ~ Max	°C	-15 ~ +46	-15 ~ +46
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRC3	Infrared remote controller

Accessories	
CZ-CAPWFC1	Commercial Wi-Fi Adaptor
PAW-PACR3	Interfaces to run 3 units on Backup and alternative run
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy savings sensor

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the ηsc / ηsh values is calculated based on EN 14825. 3) Factory setting. 4) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) Add 100 mm for indoor unit or 70 mm for outdoor unit for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit. * No filter included.

R32 | INVERTER+ | HIGH EFFICIENCY COMPRESSOR | -15°C COOLING MODE | -20°C HEATING MODE | BLUEFIN | LARGE FAN | R22/R410A RENEWAL | OPTIONAL WI-FI | BMS CONNECTIVITY

INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Heating Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

PACi Elite and Standard 4 way 60x60 cassette Inverter+ • R32

Small and powerful, ideal for offices and restaurants.
Standard units only for Twin, Triple and Double-twin combinations.

Technical focus

· Fresh air distribution
· Multidirectional air flow
· Integrated drain pump gives 850 mm lift
· 3 speed centrifugal fan
· DC fan for better efficiency and control
· Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

Lighter and slimmer, easier installation

Lightweight and very slim which makes installation possible even in narrow ceilings.
Designed to fit exactly into a 600x600 mm ceiling grid without the need to alter the bar configuration.

A drain height of approximately 850 mm from the ceiling surface

The drain height can be increased by approx. 350 mm over the conventional value by using a high-lift drain pump, and long horizontal piping is possible.
Lightweight at 18kg, the unit is also very slim with a height of only 288 mm, making installation possible even in narrow ceilings.

Up to 350 mm

Up to 850 mm

Up to 288 mm
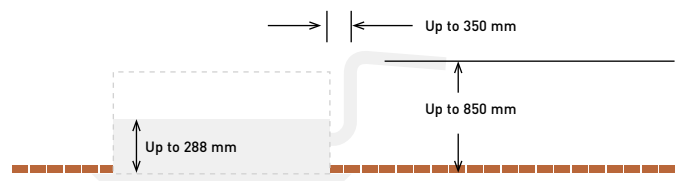
Significant reduction of power consumption by using highly developed DC fan motors with variable speed, special heat exchangers, etc.

CZ-RTC5B

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Panel 700 x 700 mm.
CZ-KPY3AW

Panel 625 x 625 mm.
CZ-KPY3BW

CONEX

Optional controller.
CONEX wired remote controller.
CZ-RTC6 - CZ-RTC6BL

Optional controller.
Infrared remote controller.
CZ-RWS3

			Single phase	
			3,6 kW	**5,0 kW**
Kit			KIT-36PY2ZH5	KIT-50PY2ZH5
Remote controller			CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	3,6 (1,5 - 4,0)	5,0 (1,5 - 5,6)
EER [1]		W/W	4,68	3,68
SEER / ηsc [2]			**6,6 A++**	**6,4 A++**
Pdesign		kW	3,6	5,0
Input power cooling		kW	0,77	1,36
Annual energy consumption [3]		kWh/a	191	273
Heating capacity	Nominal (Min - Max)	kW	4,0 (1,5 - 5,0)	5,6 (1,5 - 6,5)
COP [1]		W/W	4,26	3,46
SCOP / ηsc [2]			**4,6 A++**	**4,3 A+**
Pdesign at -10 °C		kW	3,6	4,5
Input power heating		kW	0,94	1,62
Annual energy consumption [3]		kWh/a	1096	1465
Indoor unit			S-36PY2E5B	S-50PY2E5B
Air flow	Hi / Med / Lo	m³/min	9,7 / 8,0 / 6,0	11,1 / 9,8 / 8,5
Moisture removal volume		L/h	1,5	2,4
Sound pressure [4]	Hi / Med / Lo	dB(A)	36 / 32 / 26	40 / 37 / 33
Sound power	Hi / Med / Lo	dB(A)	51 / 47 / 41	55 / 52 / 48
Dimension (H x W x D) / Net weight	Indoor	mm / kg	288 x 583 x 583 / 18	288 x 583 x 583 / 18
	CZ-KPY3AW Panel	mm / kg	31 x 700 x 700 / 2,4	31 x 700 x 700 / 2,4
	CZ-KPY3BW Panel	mm / kg	31 x 625 x 625 / 2,4	31 x 625 x 625 / 2,4
Outdoor unit			U-36PZH2E5	U-50PZH2E5
Power source		V	220 - 230 - 240	220 - 230 - 240
Current	Cool	A	3,65 - 3,50 - 3,35	6,35 - 6,10 - 5,85
	Heat	A	4,50 - 4,30 - 4,15	7,70 - 8,40 - 8,10
Air flow	Cool / Heat	m³/min	40 / 40	40 / 45
Sound pressure	Cool / Heat (Hi)	dB(A)	43 / 44	45 / 48
Sound power	Cool / Heat (Hi)	dB(A)	62 / 64	64 / 68
Dimension / Net weight	H x W x D	mm / kg	695 x 875 x 320 / 43	695 x 875 x 320 / 43
Pipe diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)
	Gas pipe	Inch (mm)	1/2 (12,70)	1/2 (12,70)
Pipe length range		m	3 ~ 40	3 ~ 40
Elevation difference (in/out) [5]		m	30	30
Pipe length for additional gas		m	30	30
Additional gas amount		g/m	20	20
Refrigerant (R32) / CO_2 Eq.		kg / T	1,15 / 0,776	1,15 / 0,776
Operating range	Cool Min ~ Max	°C	-15 ~ +46	-15 ~ +46
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3	Infrared remote controller
CZ-CAPWFC1	Commercial Wi-Fi Adaptor
PAW-PACR3	Interfaces to run 3 units on Backup and alternative run

Accessories	
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy savings sensor

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the ηsc / ηsh values is calculated based on EN 14825. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) When installing the outdoor unit at a higher position than the indoor unit.
* Recommended fuse for the indoor 3 A.

R32   A++ 6,6 SEER   A++ 4,6 SCOP   INVERTER+   -15°C COOLING MODE   -20°C HEATING MODE   DC FAN   R22 R410A R22/R410A RENEWAL   R32   OPTIONAL WI-FI   BMS CONNECTIVITY

SEER and SCOP: For KIT-36PY2ZH5. INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Heating Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

Commercial single, twin, triple and double-twin systems • R32

With this system, a single outdoor unit can split its capacity up to 4 indoor units for better distribution within the space simultaneously. This makes the system particularly apt for common areas. It reduces noise concentration and enables the same temperature to be reached around the room. A mix of indoor units can be installed (wall-mounted, cassette, hide-away, ceiling) in one system.
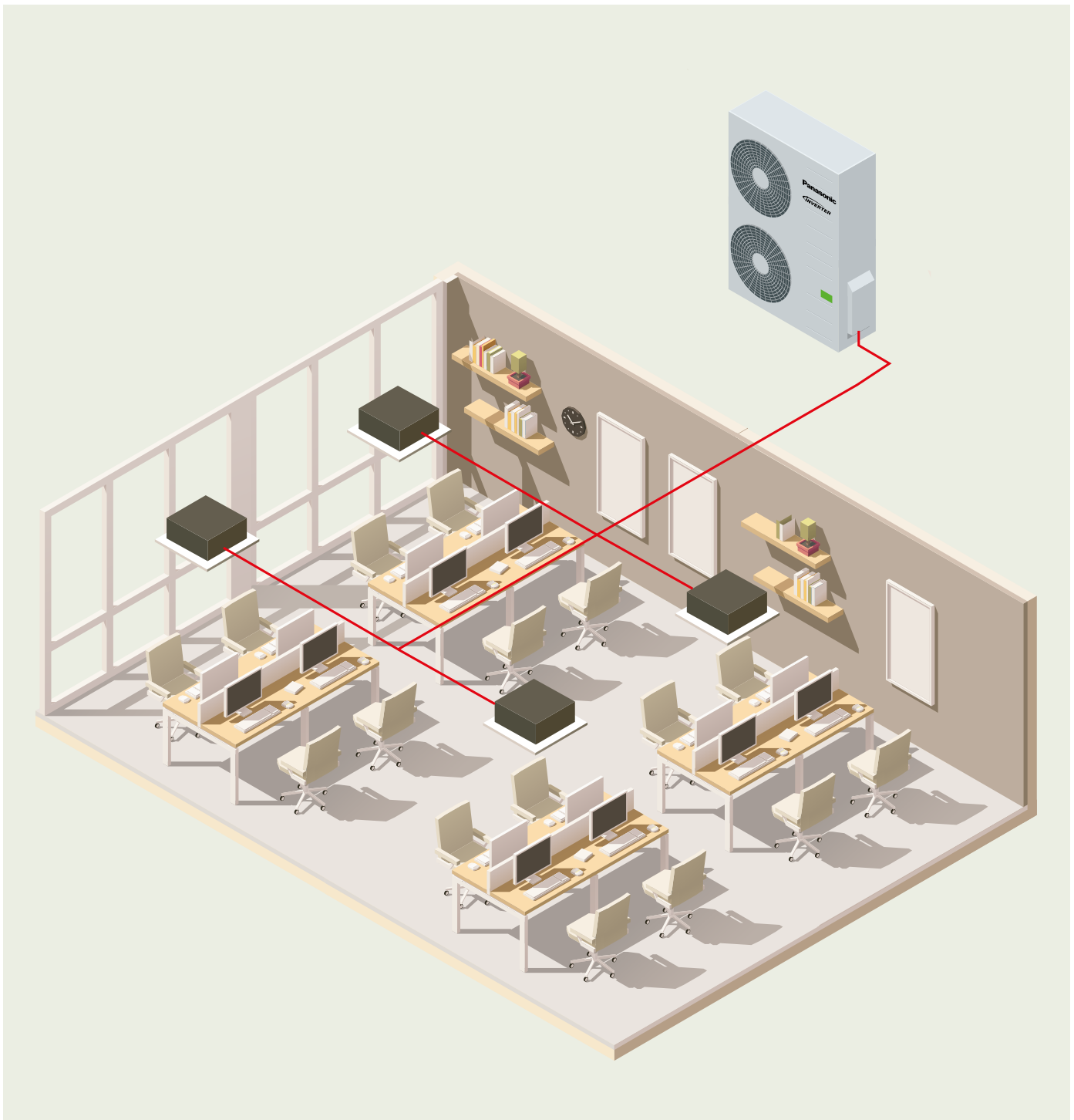
1 **PACi NX Elite from 7,1 to 14,0 kW**

Up to 4 indoor units can be connected to the same outdoor unit. Panasonic's Elite units 7,1, 10,0, 12,0 and 14,0 can be installed as twin, triple and double-twin systems. The indoor units can be combined as per the selection table. The operation will always be simultaneous. All the indoor units will work with the same settings.

2 **PACi NX Standard from 10,0 to 14,0 kW**

Up to 2 indoor units connectable on the same outdoor. Panasonic's Standard units can be installed as single and twin systems. The indoor units can be combined following the selection table. The operation will always be simultaneous. All the indoor units will work with the same settings.

3 **Big PACi Elite from 20,0 to 25,0 kW**

Up to 4 indoor units can be connected to the same outdoor unit. Panasonic's PACi units 20,0 and 25,0 can be installed as twin, triple and double-twin systems. The indoor units can be combined as per the selection table. The operation will always be simultaneous. All the indoor units will work with the same settings.

PACi NX single, twin, triple and double-twin systems • R32

NEW PACi NX Elite Outdoor units • R32

			7,1 kW	10,0 kW	12,5 kW	14,0 kW	20,0 kW	25,0 kW
Outdoor unit single phase			U-71PZH3E5	U-100PZH3E5	U-125PZH3E5	U-140PZH3E5	—	—
Outdoor unit three phase			U-71PZH3E8	U-100PZH3E8	U-125PZH3E8	U-140PZH3E8	U-200PZH2E8	U-250PZH2E8
Cooling capacity	Nominal (Min-Max)	kW	6,8 (2,2 - 9,0)	9,5 (3,1 - 12,5)	12,1 (3,2 - 14,0)	13,4 (3,3 - 16,0)	20,0 (5,7 - 22,4)	25,0 (6,1 - 28,0)
Heating capacity	Nominal (Min-Max)	kW	8,0 (2,0 - 9,0)	11,2 (3,1 - 14,0)	14,0 (3,2 - 16,0)	16,0 (3,3 - 18,0)	22,4 (5,0 - 25,0)	28,0 (5,5 - 31,5)
Power source	Single phase	V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	—	—
	Three phase	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Connection indoor / outdoor		mm²	2x1,5 or 2,5	2x1,5 or 2,5	2x1,5 or 2,5	2x1,5 or 2,5	—	—
Air flow	Cool / Heat	m³/min	61,0/60,0	118,0/108,0	125,0/112,0	129,0/116,0	164/164	160/160
Sound pressure	Cool / Heat (Hi)	dB(A)	48/50	52/52	53/53	54/54	59/61	59/63
Sound power	Cool / Heat (Hi)	dB(A)	65/67	69/69	70/70	71/71	77/79	78/82
Dimension	H x W x D	mm	996 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340	1500 x 980 x 370	1500 x 980 x 370
Net weight		kg	65	98	98	98	117	128
Pipe diameter	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	1/2 (12,70)
	Gas pipe	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	1 (25,40)	1 (25,40)
Pipe length range	Min ~ Max	m	5 ~ 50	5 ~ 85	5 ~ 85	5 ~ 85	5 ~ 80	5 ~ 60
Elevation difference (in/out)	Max	m	15/30 [1]	15/30 [1]	15/30 [1]	15/30 [1]	30	30
Pipe length for additional gas		m	30	30	30	30	30	30
Additional gas amount		g/m	45	45	45	45	60	80
Refrigerant (R32) / CO₂ Eq.		kg / T	1,95/1,32	3,05/2,06	3,05/2,06	3,05/2,06	4,20/2,835	5,20/3,51
Operating range	Cool Min ~ Max	°C	-15 ~ 48	-20 ~ +48 [2]	-20 ~ +48 [2]	-20 ~ +48 [2]	-15 ~ +46	-15 ~ +46
	Heat Min ~ Max	°C	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ +24	-20 ~ +24

1) Outdoor unit located lower / outdoor unit located higher. 2) For models 100 ~ 140PZH3E5(8), it is possible to operate the lowest -20 °C in the computer rooms with the piping length of 30 m or less.

NEW PACi NX Standard Outdoor units • R32

			10,0 kW	12,5 kW	14,0 kW
Outdoor unit single phase			U-100PZ3E5	U-125PZ3E5	U-140PZ3E5
Outdoor unit three phase			U-100PZ3E8	U-125PZ3E8	U-140PZ3E8
Cooling capacity	Nominal (Min-Max)	kW	10,0 (3,0 - 11,5)	12,5 (3,2 - 13,5)	14,0 (3,3 - 15,0)
Heating capacity	Nominal (Min-Max)	kW	10,0 (3,0 - 14,0)	12,5 (3,3 - 15,0)	14,0 (3,4 - 16,0)
Power source	Single phase	V	220-230-240	220-230-240	220-230-240
	Three phase	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Connection indoor / outdoor		mm²	2x1,5 or 2,5	2x1,5 or 2,5	2x1,5 or 2,5
Air flow	Cool / Heat	m³/min	73,0/73,0	82,0/80,0	84,0/82,0
Sound pressure	Cool / Heat (Hi)	dB(A)	52/52	55/55	56/56
Sound power	Cool / Heat (Hi)	dB(A)	70/70	73/73	74/74
Dimension	H x W x D	mm	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	83	87	87
Pipe diameter	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas pipe	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range	Min ~ Max	m	5 ~ 50	5 ~ 50	5 ~ 50
Elevation difference (in/out)	Max	m	15/30 [1]	15/30 [1]	15/30 [1]
Pipe length for additional gas		m	30	30	30
Additional gas amount		g/m	45	45	45
Refrigerant (R32) / CO₂ Eq.		kg / T	2,4/1,62	2,8/1,89	2,8/1,89
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ 24	-15 ~ 24	-15 ~ 24

1) Outdoor unit located lower / outdoor unit located higher.

NEW 2021

NEW wall-mounted	Indoor	Cooling capacity	Heating capacity	Dimension	Sound pressure	Air flow
				H x W x D	Hi / Med / Lo	Hi / Med / Lo
		kW	kW	mm	dB(A)	m³/min
3,6 / 4,5 / 5,0 kW	S-3650PK3E	3,6 - 5,0	4,0 - 5,6	302 x 1120 x 236	35 / 31 / 27 [1]	13,0 / 11,0 / 9,0 [1]
6,0 / 7,1 kW	S-6010PK3E	6,1 - 10,0	7,0 - 8,0	302 x 1120 x 236	47 / 44 / 40 [1]	20,0 / 17,5 / 14,5 [1]

NEW 2021

NEW 4 way 60x60 cassette [2]	Indoor (panel CZ-KPY4)	Cooling capacity	Heating capacity	Dimension indoor	Dimension panel	Sound pressure	Air flow
				H x W x D	H x W x D	Hi / Med / Lo	Hi / Med / Lo
		kW	kW	mm	mm	dB(A)	m³/min
3,6 kW	S-25PY3E						
4,5 kW	S-36PY3E						
5,0 kW	S-50PY3E						
6,0 kW	S-60PY3E						

Tentative data

NEW 2021

NEW 4 way 90x90 cassette	Indoor (panels CZ-KPU3W / CZ-KPU3AW)	Cooling capacity	Heating capacity	Dimension indoor	Dimension panel	Sound pressure	Air flow
				H x W x D	H x W x D	Hi / Med / Lo	Hi / Med / Lo
		kW	kW	mm	mm	dB(A)	m³/min
3,6 / 4,5 / 5,0 kW	S-3650PU3E	3,6 - 5,0	4,0 - 5,6	256 x 840 x 840	33,5 x 950 x 950	30 / 28 / 27 [1]	14,5 / 13,0 / 11,5 [1]
6,0 / 7,1 kW	S-6071PU3E	6,0 - 7,1	7,0 - 8,0	256 x 840 x 840	33,5 x 950 x 950	36 / 31 / 28 [1]	21,0 / 16,0 / 13,0 [1]
10,0 / 12,5 / 14,0 kW	S-1014PU3E	10,0 - 14,0	11,2 - 16,0	319 x 840 x 840	33,5 x 950 x 950	45 / 38 / 32 [1]	36,0 / 26,0 / 18,0 [1]

NEW 2021

NEW ceiling	Indoor	Cooling capacity	Heating capacity	Dimension	Sound pressure	Air flow
				H x W x D	Hi / Med / Lo	Hi / Med / Lo
		kW	kW	mm	dB(A)	m³/min
3,6 / 4,5 / 5,0 kW	S-3650PT3E	3,5 - 5,0	4,0 - 5,6	235 x 960 x 690	36 / 32 / 28 [1]	14,0 / 12,0 / 10,5 [1]
6,0 / 7,1 kW	S-6071PT3E	6,0 - 6,8	7,0 - 8,0	235 x 1275 x 690	38 / 34 / 29 [1]	20,0 / 17,0 / 14,5 [1]
10,0 / 12,5 / 14,0 kW	S-1014PT3E	9,5 - 13,4	11,2 - 16,0	235 x 1590 x 690	42 / 37 / 34 [1]	30,0 / 25,0 / 23,0 [1]

NEW 2021

NEW adaptive ducted unit	Indoor	Cooling capacity	Heating capacity	Dimension	External static pressure	Sound pressure	Air flow
				H x W x D	Nominal (Min - Max) Hi / Med / Lo	Hi / Med / Lo	Hi / Med / Lo
		kW	kW	mm	Pa	dB(A)	m³/min
3,6 / 4,5 / 5,0 kW	S-3650PF3E	3,6 - 5,0	4,0 - 5,6	250 x 800 x 730	30 (10 - 150)	30 / 27 / 22 [1]	14,0 / 13,0 / 10,0 [1]
6,0 / 7,1 kW	S-6071PF3E	5,7 - 6,8	7,0 - 7,5	250 x 1000 x 730	30 (10 - 150)	30 / 26 / 23 [1]	21,0 / 19,0 / 15,0 [1]
10,0 / 12,5 / 14,0 kW	S-1014PF3E	9,5 - 13,4	10,8 - 13,5	250 x 1400 x 730	30 (10 - 150)	33 / 29 / 25 [1]	32,0 / 26,0 / 21,0 [1]

1) 36/60/10 types of indoor units value. 2) Available in Autumn 2021.

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Heating Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

Panasonic R32

PACi NX Elite from 7,1 to 14,0 kW Single/Simultaneous operation system combinations • R32

Indoor	Outdoor 7,1 kW	10,0 kW	12,5 kW	14,0 kW
3,6 kW	Twin U-71 S-36 S-36	Triple U-100 S-36 S-36 S-36	Double-twin U-125 S-36 S-36 S-36 S-36	
4,5 kW			Triple U-125 S-45 S-45 S-45	
5,0 kW		Twin U-100 S-50 S-50		Triple U-140 S-50 S-50 S-50
6,0 kW			Twin	
7,1 kW	Single [1] U-71 S-71			Twin U-140 S-71 S-71
10,0 kW		Single [1] U-100 S-100		
12,5 kW			Single [1] U-125 S-125	
14,0 kW				Single [1] U-140 S-140

PACi NX Standard from 7,1 to 14,0 kW Single/Simultaneous operation system combinations • R32

Indoor	Outdoor 7,1 kW	10,0 kW	12,5 kW	14,0 kW
3,6 kW				
5,0 kW		Twin U-100 S-50 S-50		
6,0 kW			Twin U-125 S-60 S-60	
7,1 kW	Single [1] U-71 S-71			Twin U-140 S-71 S-71
10,0 kW		Single [1] U-100 S-100		
12,5 kW			Single [1] U-125 S-125	
14,0 kW				Single [1] U-140 S-140

PACi Elite from 20,0 to 25,0 kW Single/Simultaneous operation system combinations • R32

Indoor	Outdoor 20,0 kW	25,0 kW
5,0 kW	Double-twin U-200 S-50 S-50 S-50 S-50	
6,0 kW		Double-twin U-250 S-60 S-60 S-60 S-60
7,1 kW	Triple U-200 S-71 S-71 S-71	
10,0 kW	Twin U-200 S-100 S-100	
12,5 kW		Twin U-250 S-125 S-125
20,0 kW	Single [1] U-200 S-200	
25,0 kW		Single [1] U-250 S-250

1) PACi 1x1 Kit solution.

186

Single
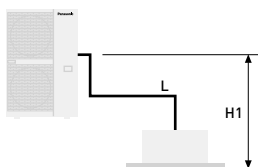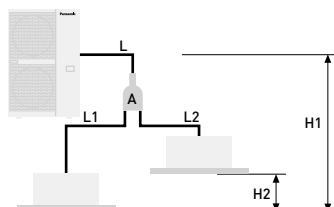
Twin

Triple

Double-twin

PACi Elite twin, triple and double-twin system from 7,1 to 14,0 kW
Joint distribution (sold separately)
A= CZ-P224BK2BM
B= CZ-P3 HPC2BM
C= CZ-P224BK2BM

PACi Standard twin system from 10,0 to 14,0 kW
Joint distribution (sold separately)
A= CZ-P224BK2BM

PACi Elite twin, triple and double-twin system from 20,0 to 25,0 kW
Joint distribution (sold separately)
A= CZ-P680BK2BM
B= CZ-P3 HPC2BM
C= CZ-P224BK2BM

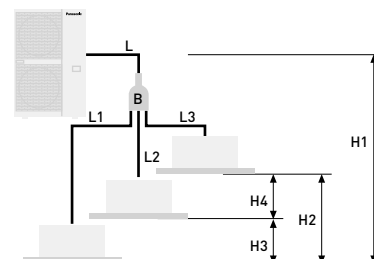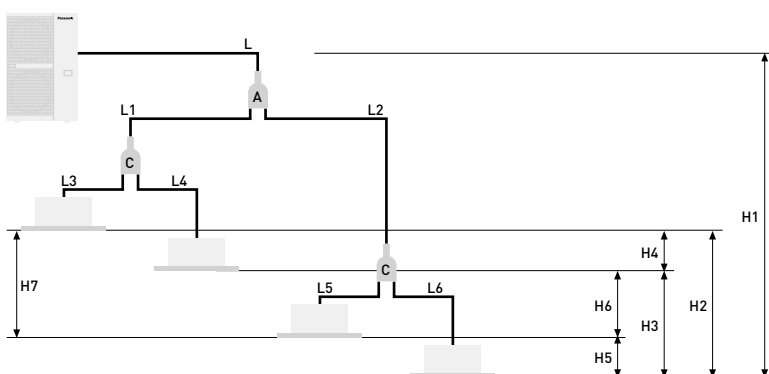| Twin System	PACi Standard single and twin system from 7,1 to 14,0 kW		PACi Elite twin, triple and double-twin system from 7,1 to 25 kW					
	Indoor unit combinations (see examples above)	Equivalent lengths and height differences (m) for outdoor unit sizes...	Indoor unit combinations (see examples above)				Equivalent lengths and height differences (m) for outdoor unit sizes from 7,1 to 14,0 kW	Equivalent lengths and height differences (m) for outdoor unit sizes from 20,0 to 25,0 kW
	Single / Twin		Single	Twin	Triple	Double-Twin		
Total pipe length	L | L + L1 + L2	≤ 50 m	L	L + L1 + L2	L + L1 + L2 + L3	L + L1 + L2 + L3 + L4 + L5 + L6	U-60/U-71: ≤ 50 m U-100/125/140: ≤ 75 m	U-200: ≤ 100 m U-250: ≤ 80 m
Maximum pipe length from outdoor unit to most distant indoor unit	– | –	–	–	L + L1 or L + L2	L + L1 or L + L2 or L + L3	L + L1 + L3 or L + L1 + L4 or L + L2 + L5 or L + L2 + L6	–	U-200: 90 m U-250: 60 m
Maximum branch pipe length	– | L1 L2	≤ 15	–	L1 or L2	L1 or L2 or L3	L1 + L3 or L1 + L4 or L2 + L5 or L2 + L6	≤ 15 m	≤ 20 m
Maximum branch pipe length differences	– | L1 > L2 L1 - L2	≤ 10	–	L1 > L2: L1 - L2	L1 > L2 > L3: L1 - L2 / L2 - L3 / L1 - L3	L2 + L6 (Max.) L1 + L3 (Min.): (L2 + L6) - (L1 + L3)	≤ 10 m	≤ 10 m
Maximum pipe length differences after first branch (Double-Twin)	– | –	–	–	–	–	L2 > L1: L2 - L1	≤ 10 m	≤ 10 m
Maximum pipe length differences after second branch (Double-Twin)	– | –	–	–	–	–	L4 > L3: L4 - L3 L6 > L5: L6 - L5	≤ 10 m	≤ 10 m
Height difference (outdoor unit located higher)	H1 | H1	≤ 30	H1	H1	H1	H1	≤ 30 m	≤ 30 m
Height difference (outdoor unit located lower)	H1 | H1	≤ 15	H1	H1	H1	H1	≤ 15 m	≤ 15 m
Height difference between indoor units	– | H2	≤ 0,5	–	H2	H2 or H3 or H4	H2 or H3 or H4 or H5 or H6	≤ 0,5 m	≤ 0,5 m

Twin System	PACi Standard single and twin system from 7,1 to 14,0 kW				PACi Elite twin, triple and double-twin system from 7,1 to 14,0 kW						PACi Elite twin, triple and double-twin system from 20,0 to 25,0 kW				
	Outdoor unit main pipe diameter (L)		Indoor unit connection tube (L1, L2)		Outdoor unit main pipe diameter (L)	Indoor unit connection pipe diameter (L1, L2, L3, L4) (mm)					Outdoor unit main pipe diameter (L) (mm)		Double-Twin distribution pipe (L1, L2) [1]	Indoor unit connection pipe diameter [2]	
Unit type capacity	100	125	50	60	71 - 140	36	45	50	60	71	200	250	100 - 125	50	60 - 125
Liquid pipe (mm)	Ø 9,52	Ø 12,70	Ø 6,35	Ø 9,52	Ø 9,52	Ø 6,35	Ø 6,35	Ø 6,35	Ø 9,52	Ø 9,52	Ø 9,52	Ø 12,70	Ø 9,52	Ø 6,35	Ø 9,52
Gas pipe (mm)	Ø 15,88	Ø 15,88	Ø 12,70	Ø 15,88	Ø 15,88	Ø 12,70	Ø 12,70	Ø 12,70	Ø 15,88	Ø 15,88	Ø 25,40	Ø 25,40	Ø 15,88	Ø 12,70	Ø 15,88
Additional gas amount (g/m)	50	50	20	50	50	20	20	20	50	50	60	80	45	20	45

1) Total capacity of indoor unit connected after the branch. 2) 4 Way Cassette type.

Make additional charges by adding up tube length in an order of main tube (L) → branch tube (L1 → L2 → L3 wide diameter) and then selecting the amount of refrigerant corresponding to the remaining (after charge-less tube length: 30 m) liquid tube diameter and tube length from the above table.

PRO-HT Tank Series for PACi

Enjoy an efficient DHW / heating and cooling tank.
Panasonic commercial PRO-HT Tank solutions meet all
needs of your hot water applications providing 65 °C water.

PRO-**HT** *TANK*

MAXIMUM
65 °C
WATER OUTLET
TEMPERATURE

PRO-HT Tank DHW: PAW-VP750DHW and PAW-VP1000LDHW.
Big volume and high temperature tank for commercial application.

1 **High performance and high saving**
· Energy Efficiency Class for energy label: A+ (from A+ to F)
· High temperature hot water without booster
· Save installation time and cost by skipping additional accessories

2 **Sufficient hot water production**
· Maximum water outlet temperature up to 65 °C
· Big volume tanks with 750 L and 1000 L capacity
· Heat exchanger design inhibits limescale

3 **Trusted quality**
· Double tube heat exchanger following drinking-water regulation
· Tank and heat exchanger made with stainless steel
· Internal and external pickling

Solution example DHW tank 1000 L + PACi
· Ideal for small hotels and high-end residential
· Hot water temperature up to 65 °C
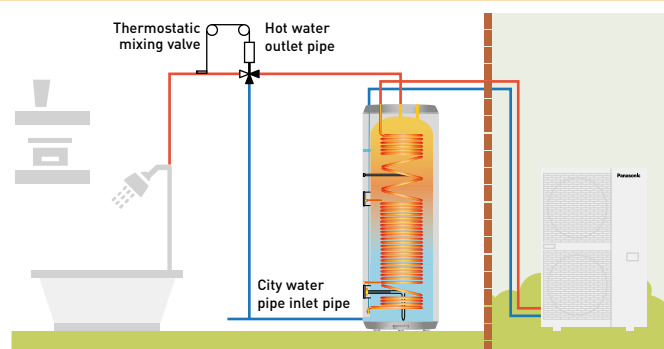
One by one system compatible list with PACi Elite

Model	Tank type	Product compatibility	Hot water outlet temperature without an electric heater
PAW-VP750LDHW-1	DHW	U-250PE2E8A	65 °C
PAW-VP1000LDHW-1	DHW	U-250PE2E8A	65 °C

PRO-HT Tank heating and cooling: PAW-VP380L. Waterborne heating and cooling for floor heating, radiators or fan coils

1 **High performance and high saving**
· A7 COP 3,26, heating water temperature at 45 °C
· Maximum 45 °C water outlet temperature
· Energy efficiency class: A+++ (from A+++ to D)

2 **Simple waterborne heating and cooling solution**
· High temperature water without any boosters
· Installation cost can be saved without additional boosters and buffer tanks

3 **Trusted quality**
· Tank and heat exchanger made with stainless steel
· Internal and external pickling

Heating and cooling tank 380L + PACi 20,0 kW
· Ideal offer for small offices
· Cost saving solution with simple waterborne heating and cooling
· Hot water up to 45 °C
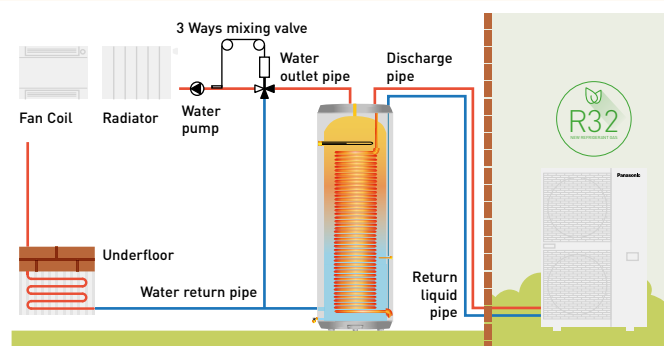
One by one system compatible list with PACi Elite

Model	Tank type	Product compatibility	Water outlet temperature range
PAW-VP380L	Heating and cooling	U-200PZH2E8	5 °C ~ 45 °C

PRO-HT *TANK*

PRO-HT Tank DHW

High temperature hot water is efficiently produced without any boosters.
Panasonic commercial PRO-HT Tank solutions can be adapted to adapt various projects from high-end residential to gyms and hotels.

PRO-HT Tank			PAW-VP750LDHW-1	PAW-VP1000LDHW-1
Outdoor unit			U-250PE2E8A	U-250PE2E8A
Volume (net)		L	726	933
Height	Al x Ø	mm	1855 x 990	2210 x 990
Connections to the water supply network			RP 1¼	RP 1¼
Net weight / with water		kg	179 / 905	191 / 1124
Nominal electrical power		W	6670	6670
Reference tapping cycle			2XL	2XL
Energy consumption by chosen cycle A7 / W10-55		kWh	6	6,36
Energy consumption by chosen cycle A15 / W10-55		kWh	5,12	5,12
COP DHW (A7 / W10-55) EN 16147 [1]			4,1	3,86
COP DHW (A15 / W10-55) EN 16147 [2]			4,79	4,79
Energy Efficiency Class (from A+ to F) [3]			**A+**	**A+**
Standby input power according to EN16147		W	77	80
Sound pressure on 1m		dB(A)	57	57
Operating range - air temperature		°C	-20~+24	-20~+24
Stainless steel 316 L tank			Yes	Yes
Average insulation thickness		mm	100	100
Heat exchanger connection for inlet / outlet		Inch (mm)	1/2 (12,70) – 3/4 (19,05)	1/2 (12,70) – 3/4 (19,05)
Maximum power consumption without heater		W	12900	12900
Maximum power consumption with heater		W	18900	18900
Number of electrical heaters x power		W	1 x 6000	1 x 6000
Voltage / Frequency		V / Hz	400 / 50	400 / 50
Electric protection		A	16	16
Moisture protection			IP24	IP24
Heating with heat pump	Min / Max	°C	5 / 65	5 / 65
Heating with electrical heater	Max	°C	85	85
Refrigerant (R410A) / CO_2 Eq.		kg / T	6,4 / 13,363	6,4 / 13,363

Accessories	
PAW-VP-RTC5B-PAC	Tank controller for PACi system

1) Heating of sanitary water up to 55 °C with inlet air temperature at 7 °C, humidity at 89 % and inlet water temperature at 10 °C. According to EN16147. 2) Heating of sanitary water up to 55 °C with inlet air temperature at 15 °C, humidity at 74 % and inlet water temperature at 10 °C. According to EN16147. 3) Scale from A+ to F following COMMISSION DELEGATED REGULATION (EU) No. 812/2013.

This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

* When connected as pressurised, safety valve is mandatory.

Technical focus

· Water volume 750 L and 1000 L
· Maximum hot water production 65 °C without boosters
· Heating coil 52 m (750 L) and 63 m (1000 L)
· Tank material 3 mm
· ABS external case

A+ DHW   DHW   65°C OUTPUT WATER HIGH TEMPERATURE   -20°C OPERATION RANGE

PRO-HT *TANK*

PRO-HT Tank heating and cooling

High temperature hot water is efficiently produced without any boosters.
Panasonic commercial PRO-HT Tank solutions can be combined with PACi to adapt various projects from high-end residentials to small offices.

PRO-HT Tank			PAW-VP380L
Cooling capacity at 35 °C, water outlet 7 °C		kW	12,80
Heating capacity		kW	25,00
Heating capacity at +7 °C, heating water temperature at 45 °C		kW	23,00
COP at +7 °C with heating water temperature at 45 °C		W/W	3,26
Heating Energy Efficiency class at 35 °C (from A+++ to D)			**A+++**
ηsh (LOT1) [1]		%	193
Dimension	H x Ø	mm	1820 x 690
Shipping weight		kg	99
Water pipe connector			1¼
Heating water flow (ΔT=5 K. 35 °C)		m³/h	3,9
Outdoor unit			**U-200PZH2E8**
Sound pressure		dB(A)	57
Dimension	H x W x D	mm	1500 x 980 x 370
Net weight		kg	117
Pipe diameter	Liquid pipe	Inch (mm)	1/2 (12,07)
	Gas pipe	Inch (mm)	3/4 (19,05)
Refrigerant (R32) / CO_2 Eq.		kg	4,20 (1,0kg additional gas charge on site)
Pipe length range [2]		m	30
Elevation difference (in/out)		m	30 (OD above) 30 (OD below)
Pipe length for nominal capacity		m	7,5
Pipe length for additional gas		m	> 7,5
Additional gas amount		g/m	Refer to manual
Operation range - outdoor ambient	Heat / Cool	°C	-20 ~ +24 / -15 ~ +46
Water outlet	Heat / Cool	°C	25 ~ 45 / 5 ~ 15

Accessories		**Accessories**	
PAW-VP-RTC5B-PAC	Tank controller for PACi system	PAW-IU29/39	Additional heater

1) Seasonal space cooling/heating energy efficiency following COMMISSION REGULATION (EU) 811/2013. 2) The pipe length range is between indoor and outdoor, but does not include additional length for coil.

This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Performance calculation in agreement with Eurovent. Sound pressure measured at 1 m from the outdoor unit and at 1,5 m height.

* Flow switch and water filter are not equipped.

Technical focus

· Water volume 380L
· Maximum hot water production 45 °C
· Tank and heat exchanger made with stainless steel
· Heating coil 52 m 316L
· Internal and external pickling
· Foam insulation 70 mm
· Tank material 2 mm 316L
· ABS external case

R32 | A+++ ErP 35°C | 45°C OUTPUT WATER | -20°C OPERATION RANGE

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Heating Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

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PACi with water heat exchanger

Panasonic introduces highly-efficient water heat exchanger for PACi Series. This ground-breaking product gives further possibilities of PACi solutions by adding hydronic options.

WATER OUTLET TEMPERATURE
Cooling: 5 ~ 15 °C
Heating: 35 ~ 50 °C

Highly-efficient Water Heat Exchanger for PACi Series.

System example.

Water Heat Exchanger with simple and user friendly controller

Buffer tank*

Fan coil unit

External pump

Water piping

Refrigerant piping

Underfloor

PACi outdoor unit

* Minimum buffer tank volume: 10 L/kW.
** Diagram is for illustrative purpose only.
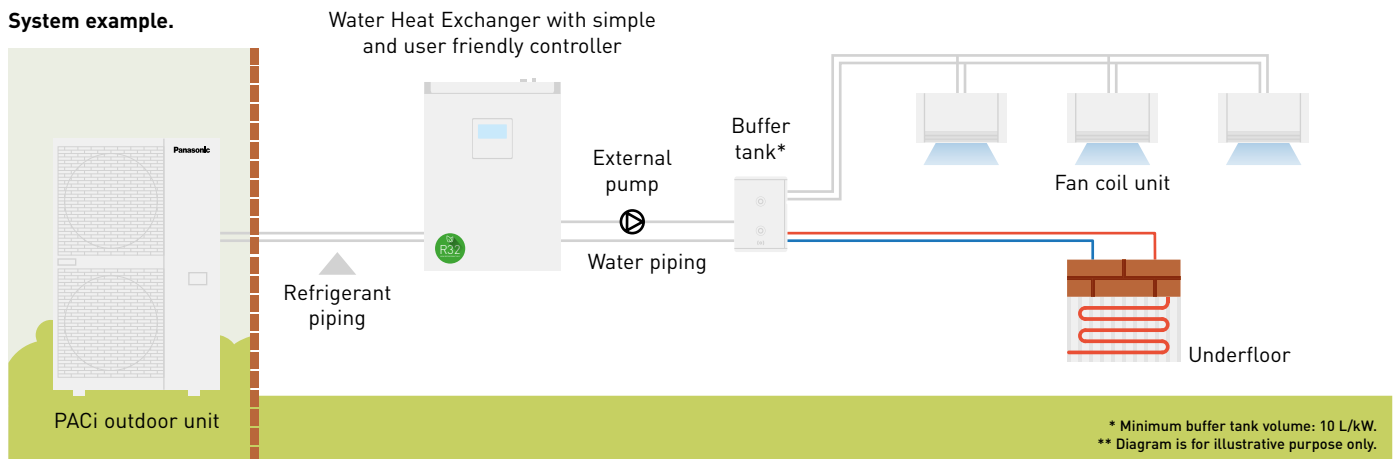
1 Cost Saving Solution
· A+++ Energy efficiency class (scale from A+++ to D)
· Cost effective water projects thanks to lower cost for PACi compared to VRF

2 Space saving & Flexible positioning
· 2 installation possibilities (wall-mounted / floor-standing)
· Compact, lightweight unit design, only 27 kg

3 Easy Installation, Maintenance
· Quick mounting process
· Flow switch kit is included as a standard
· Direct access to electrical box

Space saving & Flexible positioning

Compact and light unit.
· Only 205 mm depth fits within a limited space
· Lightweight design at only 27kg, makes it easy to maneuver and position
· Maximum total refrigerant piping length: 90 m*

* 90 m for PAW-200W5APAC.

2 installation options.
· Wall-mounted and Floor-standing installation options are available. Free-up floor space by using the Wall-mounted installation
· Quick mounting process with its lightweight compact design
  Make fixing holes ➔ Fix 2 screws ➔ Hang the unit ➔ Finish

ONLY **205 mm** DEPTH	LIGHT WEIGHT **27kg**	PIPING LENGTH **90 m**

205 mm
550 mm
455 mm

QUICK SIMPLE INSTALL		INSTALLER FRIENDLY

Wall-mounted.

Floor-standing.
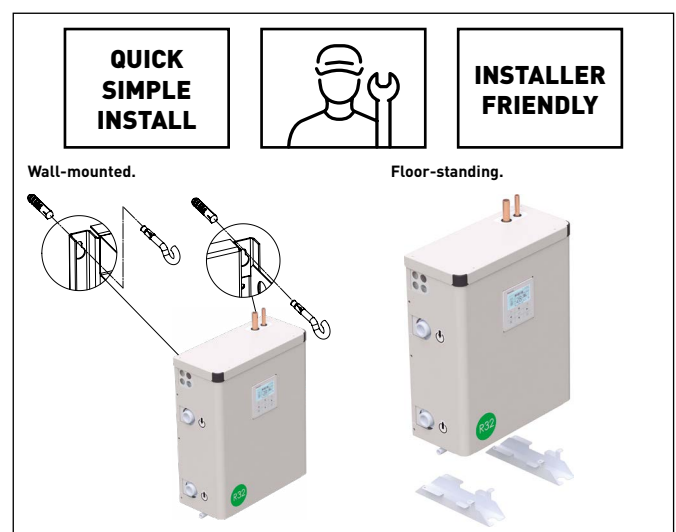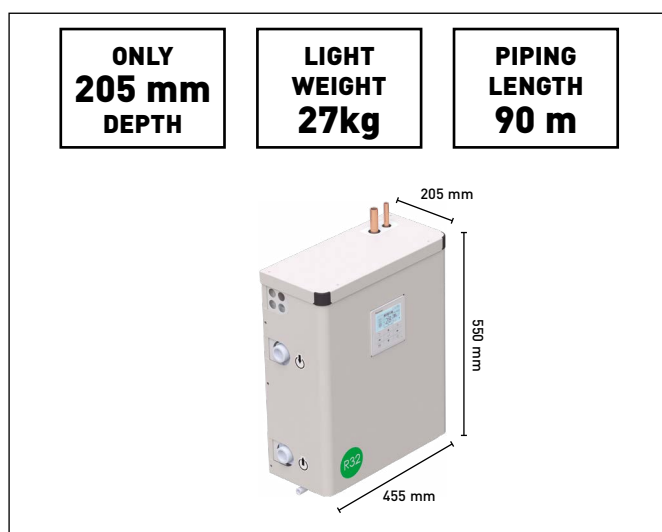
Application example
· Fulfilling R32 refrigerant needs to follow environmental perspective, Company policy
· Water solution to substitute existing boiler system
· Hydraulic system to reduce total amount of HFC refrigeration
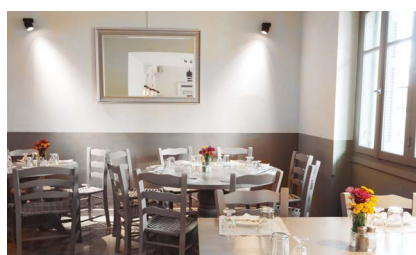
Foodchain.

Small office.

PACi Water Heat Exchanger (WHE) is ideal solution for small retails and offices.
This is the first PACi connected WHE system.
The investment costs can be amortised in a short period.

Easy maintenance operation from two points of access

Removable lid for electrical installation

Electrical Box

Integrated Control display

Rear differential pressure switch for BPHE safety

Plate heat exchanger with optimized distributor for R32 refrigerant

Antifreeze Sensor

Completely removable metallic case: full access for maintenance
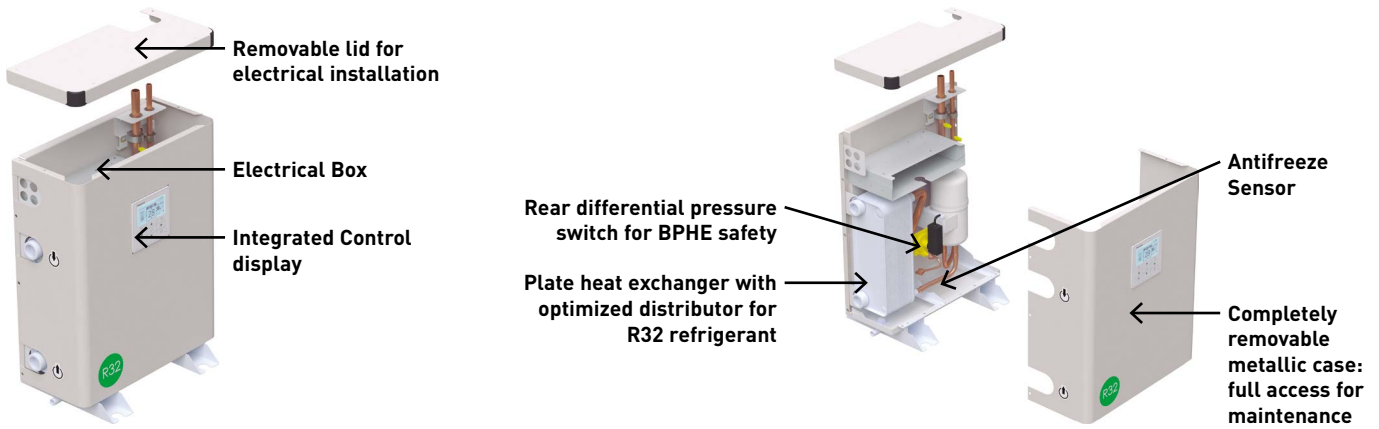
PACi Water Heat Exchanger can be connected as cascade up to 3 groups of 8 units each reaching up to 600 kW

Built-in cascade control for 2 units.
2 refrigerant systems can be connected together in a cascade. This option is included in the standard scope of delivery on the WHE. It is activated using the one of the CZ-RTC5B remote controllers on the units as master. Rotation and Back-up operation modes can be selected.

System 1

System 2

| Operation | Stand by | Operation | Stand by | Operation |
| Stand by | Operation | Stand by | Operation | Stand by |

System 1 — Operation
System 2 — Stand by

Power supply error or PCB error
System 1 — Operation — Error
System 2 — Stand by — Operation
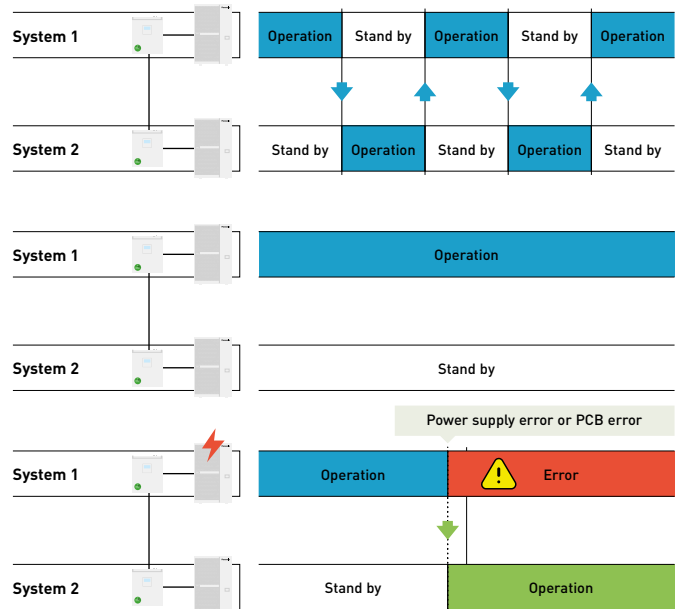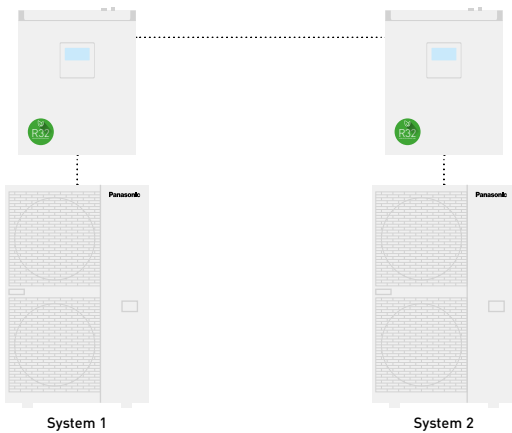
* One of built-in controllers should be deactivated.

Cascade controller PAW-PACR3 allows control from 3 units to 3 groups of 8 units each.
Up to three groups can be combined into a cascade by using optional PAW-PACR3 for failure substitution or temperature assist.

· Maximum 3 groups (up to 8 units per group)
· Rotation
· Failure substitution
· Temperature
· Operation output signal
· Alarm output signal

Example: 3 x groups.
Maximum available capacity per group: 8 x 25 kW = 200 kW.
Total maximum available capacity: 3 x 200 kW = 600 kW.

Temperature sensor

Group 1
Group 2
Group 3

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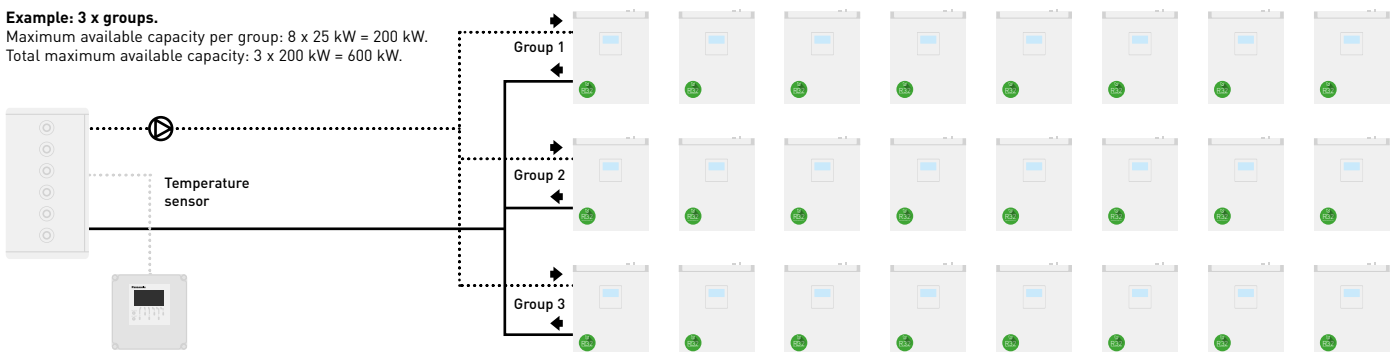
PACi with water heat exchanger for chilled and hot water production

Short-term investment.
PACi water heat exchanger is ideal for small offices and retails.
The investment costs can be amortised within a very short period.
This solution allows investors and operators to save money.

			PAW-200W5APAC	PAW-250W5APAC
Cooling capacity [1]		kW	20,00	25,00
EER [1]		W/W	3,03	2,89
Heating capacity [2]		kW	23,00	28,00
COP [2]		W/W	2,98	2,95
ηsh (LOT1) [3]		%	178	178
Energy efficiency class (Scale A+++ to D) [4]			A+++	A+++
Dimension	H x W x D	mm	550 x 455 x 205	550 x 455 x 205
Net weight		kg	27	27
Water pipe connector		Inch	Male Thread 1 ¼	Male Thread 1 ¼
Cooling water flow (ΔT=5 K. 35 °C)		m³/h	3,45	4,30
Heating water flow (ΔT=5 K. 35 °C)		m³/h	4,15	4,85
Flow switch			Included	Included
Water filter			Included	Included
Outdoor unit			**U-200PZH2E8**	**U-250PZH2E8**
Sound pressure	Cool / Heat (Hi)	dB(A)	59 / 61	59 / 63
Dimension	H x W x D	mm	1500 x 980 x 370	1500 x 980 x 370
Net weight		kg	117	128
Pipe diameter	Liquid pipe	Inch (mm)	3/8 (9,52)	1/2 (12,70)
	Gas pipe	Inch (mm)	1 (25,40)	1 (25,40)
Pipe length range		m	5 ~ 90	5 ~ 60
Elevation difference (in/out)		m	30	30
Pipe length for additional gas		m	30	30
Additional gas amount		g/m	60	80
Water outlet temperature range	Cool Min ~ Max	°C	+5 ~ +15	+5 ~ +15
	Heat Min ~ Max	°C	+35 ~ +50	+35 ~ +50
Operating range	Cool Min ~ Max	°C	-15 ~ +46	-15 ~ +46
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24

1) Data refers to 7 °C leaving chilled water temperature and 35 °C ambient air temperature, according to EN14511 standard. 2) Data refers to 45 °C leaving warm water temperature and 7 °C ambient air temperature according to EN14511 standard. 3) Following COMMISSION REGULATION (EU) No 813/2013 for low-temperature heat pumps. 4) Following COMMISSION REGULATION (EU) No 811/2013 for low-temperature heat pumps. Scale from A+++ to D.

Professional solution

Water heat exchanger is compatible with R32 PACi.
Many air conditioning manufacturers selling R32 systems and it is becoming the standard refrigerant for split type air conditioning systems because R32 has a much lower global warming potential than R410A and can also provide higher efficiency.

Quick installation with pre-assembled flow switch

The flow switches come pre-assembled with pipe fittings for ease of installation.

R32 · ErP 35°C · A++ · -20°C HEATING MODE · 46°C COOLING MODE · ADVANCED CONTROL
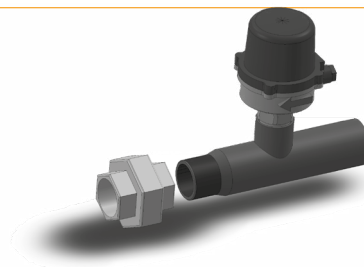
Solutions for server rooms

High efficiency products for 24/7 applications. Panasonic has developed a complete range of solutions for server rooms which efficiently protect your servers, keeping them at an appropriate temperature even when the outdoor temperature is below -20 °C.

NON STOP OPERATION
24/7
365

1 Designed for 24h/7d a week operation
High efficiency all year round. This wall-mounted air conditioner is designed for professional, critical applications such as computer rooms where reliable cooling inside the room is necessary even when the outside temperature is low.

2 High seasonal performance
Highest Energy Rating: A+++ (2,5 to 5,0 kW units). Highly efficient performance - even at -20 °C outside.
Uses new R32 refrigerant.

3 Server room logic control
PAW-SERVER-PKEA: Group wiring of 2 TKEA systems ensures auto individual control.
BMS interface: Panasonic offer different interfaces for integrate to Modbus and BACnet.

4 More comfort
Indoor Fan. Cross-Flow-Fan: High durability rolling bearings, large size (φ105 mm) fan. High efficiency blade. Random pitch blade (low sound)
Compressor: DC2P Panasonic original compressor, with high efficiency and reliability.

Exceptional efficiency means exceptional savings

TKEA provides high capacity at -20 °C!

kW

10000	
8000	71
6000	50
4000	42
	35
2000	25
0	

-20 -15 -7 0 5 16 25 35

Outdoor temperature (°C)
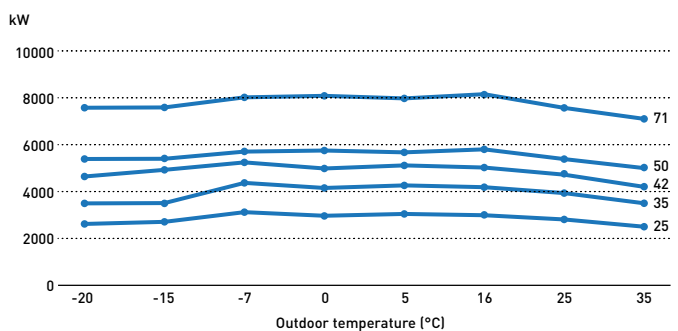
PAW-SERVER-PKEA Logic

Rotation operation time line.
Every 12 hours units change operation ON/OFF to increase compressor lifecycle.
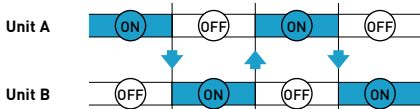
Backup operation time line.
When unit A has an error, unit B switches on automatically and gives the error output signal.
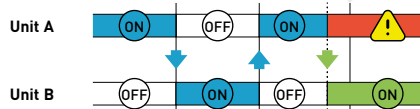
Support operation time line.
When room temperature rises to than 28 °C, both units work together and automatically give an output error signal.

Stop by alarm

Support condition (Short of capacity)   Cancel support

	Unit A	ON	OFF	ON	OFF
	Unit B	OFF	ON	OFF	ON

	Unit A	ON	OFF	ON	⚠
	Unit B	OFF	ON	OFF	ON

	Unit A	ON	OFF	ON	ON	OFF
	Unit B	OFF	ON	OFF	ON	ON
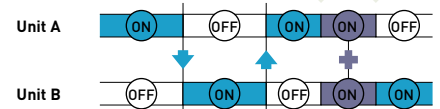
Wall-mounted Professional Inverter -20 °C • R32

High efficiency all the year.
· From 2,5 to 7,1 kW with TKEA units A+++ in cooling
· Backup function
· Redundancy function
· Alternative run function
· Error information by Dry Contact
· Operation even at -20 °C outdoor temperature
· High seasonal performance
· Product design for 24/7 operation

Kit			KIT-Z25-TKEA	KIT-Z35-TKEA	KIT-Z42-TKEA	KIT-Z50-TKEA	KIT-Z71-TKEA
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,00)	3,50 (0,85 - 4,00)	4,20 (0,98 - 5,00)	5,00 (0,98 - 6,00)	7,10 (0,98 - 8,10)
EER [1]	Nominal (Min - Max)	W/W	4,90 (5,00 - 4,29)	4,07 (5,00 - 3,64)	3,82 (4,90 - 3,25)	3,60 (3,50 - 3,09)	3,17 (2,33 - 3,03)
SEER [2]			8,5 A+++	8,5 A+++	8,5 A+++	8,5 A+++	6,1 A++
Pdesign		kW	2,50	3,50	4,20	5,00	7,10
Input power cooling	Nominal (Min - Max)	kW	0,51 (0,17 - 0,70)	0,86 (0,17 - 1,10)	1,10 (0,20 - 1,54)	1,39 (0,28 - 1,94)	2,24 (0,42 - 2,67)
Annual energy consumption [3]		kWh/a	103	144	173	206	407
Heating capacity	Nominal (Min - Max)	kW	3,40 (0,85 - 5,40)	4,00 (0,85 - 6,60)	5,40 (0,98 - 7,25)	5,80 (0,98 - 8,00)	8,60 (0,98 - 9,90)
Heating capacity at -7 °C		kW	3,33	4,07	4,30	5,00	6,13
COP [1]	Nominal (Min - Max)	W/W	4,86 (5,15 - 4,12)	4,35 (5,15 - 3,63)	4,00 (4,45 - 3,37)	4,03 (2,88 - 3,20)	3,51 (2,45 - 3,47)
SCOP [2]			4,5 A+	4,4 A+	4,3 A+	4,4 A+	4,0 A+
Pdesign at -10 °C		kW	2,80	3,60	3,80	4,40	5,50
Input power heating	Nominal (Min - Max)	kW	0,70 (0,17 - 1,31)	0,92 (0,17 - 1,82)	1,35 (0,22 - 2,15)	1,44 (0,34 - 2,50)	2,45 (0,40 - 2,85)
Annual energy consumption [3]		kWh/a	871	1145	1237	1400	1925
Indoor unit			CS-Z25TKEA	CS-Z35TKEA	CS-Z42TKEA	CS-Z50TKEA	CS-Z71TKEA
Power source		V	230	230	230	230	230
Recommended fuse		A	16	16	16	16	20
Connection indoor / outdoor		mm²	4 x 1,5	4 x 1,5	4 x 1,5	4 x 2,5	4 x 2,5
Air flow	Cool / Heat	m³/min	10,4/11,7	10,7/12,4	18,2/20,2	19,2/21,3	20,2/21,0
Moisture removal volume		L/h	1,5	2,0	2,4	2,8	4,1
Sound pressure [4]	Cool (Hi / Lo / Q-Lo)	dB(A)	39/25/21	42/28/21	43/32/29	44/37/30	47/38/35
	Heat (Hi / Lo / Q-Lo)	dB(A)	41/27/22	43/30/22	44/35/29	44/37/30	47/38/35
Dimension	H x W x D	mm	295 x 919 x 194	295 x 919 x 194	302 x 1120 x 236	302 x 1120 x 236	302 x 1120 x 236
Net weight		kg	9	9	12	12	13
Outdoor unit			CU-Z25TKEA	CU-Z35TKEA	CU-Z42TKEA	CU-Z50TKEA	CU-Z71TKEA
Sound pressure [4]	Cool / Heat (Hi)	dB(A)	46/48	48/50	48/50	48/50	52/54
Dimension [5]	H x W x 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
Net weight		kg	37	38	38	43	49
Pipe diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
	Gas pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)
Pipe length range		m	3 ~ 20	3 ~ 20	3 ~ 20	3 ~ 30	3 ~ 30
Elevation difference (in/out) [6]		m	15	15	15	15	20
Pipe length for additional gas		m	7,5	7,5	7,5	7,5	10
Additional gas amount		g/m	10	10	10	15	25
Refrigerant (R32) / CO$_2$ Eq.		kg / T	0,96 / 0,648	1,00 / 0,675	1,08 / 0,729	1,15 / 0,776	1,32 / 0,891
Operating range	Cool Min ~ Max	°C	-20 ~ +43	-20 ~ +43	-20 ~ +43	-20 ~ +43	-20 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

Accessories	
CZ-TACG1*	Wi-Fi adapter for smart control via Panasonic Comfort Cloud App
CZ-CAPRA1*	RAC interface adapter for integration into P-Link
PAW-SERVER-PKEA*	PCB for installation in server rooms with security

Accessories	
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position 1 m in front of the main body and 0,8 m below the unit. For outdoor unit 1 m in front and 1 m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70 mm for piping port. 6) When installing the outdoor unit at a higher position than the indoor unit.
* Only one of these can be used at a time.

R32 | A+++ 8,5 SEER | A+ 4,5 SCOP | INVERTER | R2 ROTARY COMPRESSOR | 21dB(A) | AEROWINGS | -20°C COOLING MODE | -15°C HEATING MODE | R22 R410A / R22/R410A RENEWAL R32 | INTEGRATION TO P-LINK | OPTIONAL WI-FI | BMS CONNECTIVITY

SEER and SCOP: For KIT-Z25-TKEA. SUPER QUIET: For KIT-Z25-TKEA. INTERNET CONTROL: Optional.

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Heating Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

R22 Renewal. Fast, easy to install and cost effective

An important drive to further reduce the potential damage to our ozone.
It is often said that legislation is ruling our lives but sometimes it is there to help save lives. R22 phase out can be described as one of these and from Jan 1st 2010 the use of Virgin (new) R22 refrigerant was banned within the European Union.

Panasonic is doing its part

We at Panasonic are also doing our part – recognising that all finances are under pressure at the moment. Panasonic has developed a clean and cost effective solution to enable this latest legislation to offer less financial impact on your business.
The Panasonic renewal system allows good quality existing R22 or R410A pipe work to be re-used whilst installing new high efficiency R32 systems.
By bringing a simple solution to the problem Panasonic can renew all Split Systems and PACi systems; and depending upon certain restrictions we don't even limit the manufacturer's equipment we are replacing.

By installing a new high efficiency Panasonic R32 system you can benefit from around 30 % running cost saving compared to the R22 system.

Yes…
1. Check the capacity of the system you wish to replace
2. Select from the Panasonic range the best system to replace it with
3. Follow the procedure detailed in the brochure and technical data
Simple…

Why renewal?

Unique R22 Renewal from Panasonic: Fast, easy to install and cost effective.
· Panasonic refrigerant oil doesn't react to the most common oil types used in air-conditioning systems. This ensures the mix of oil does not damage the units. Therefore installations are easier

· All Panasonic PACi units can be installed in R22 pipings, no specific models are available
· Up to 33 Bar! When there is any doubt about the strength of the piping, the maximum working pressure can be reduced to 33 Bar with a setting in the software of the outdoor unit

Reuse of existing piping (renewal design & installation)

Notes on reuse of existing refrigerant piping.
It is possible for each series of PZH and PZ series outdoor unit to reuse the existing refrigerant piping without cleaning when obtained under certain conditions. Make sure that the requirements under the section "Notes on reuse of existing refrigerant piping", "Measurement procedure for renewal" and "Refrigerant piping size and allowable piping length" will be satisfied in order to carry out.
Also, check the items with regard to section "Safety" and "Cleaning".

1. Prerequisite
· If the refrigerant used for the existing unit is other than R22, R407C and R410A / R32, the existing refrigerant piping cannot be used.
· If the existing unit has another use than air conditioning, then existing refrigerant piping cannot be used.

2. Safety
· If there is a hollow, crack or corrosion on the piping, make sure to install new piping.
· If the existing piping is other than capable of reuse of piping as shown in the flowchart, make sure to install new piping.
· In case of multiple operation, use our genuine branch piping for refrigerant R32.

A local supplier shall assume responsibility for the defects and hollows on the reuse of existing piping surface and recognition of reliability of the piping strength. There is no guarantee that we take responsibility for such damages.
The operational pressure of the refrigerant R32 becomes higher compared to R22 or R410A. In the worst case, a lack of compressive strength may lead to piping explosion.

3. Cleaning
· When the refrigerant oil used for the existing unit is other than the listed below, make sure to install new piping or wash it thoroughly before reusing it.
[Mineral Oil] SUNISO, FIORE S, MS
[Synthesized oil] alkyl benzene oil (HAB, parallel freeze), ester oil, ether oil (PVE only)

If the existing unit is GHP type, it is necessary to wash the piping thoroughly.

· If the existing pipes in the outdoor and indoor units remain disconnected, make sure to install a new piping or wash it thoroughly before reusing it.
· If the discoloured oil or residue remains in the existing piping, make sure to install a new piping or wash it thoroughly before reusing it. See "Deterioration Criteria for Refrigerant Oil" in table 3.
· If the compressor of the existing air conditioner has a failure history, make sure to install a new piping or wash it through thoroughly before reusing it.

When reusing the existing piping as it is without removing dirt and dust, inadequate piping could result a renewal appliance in failure.
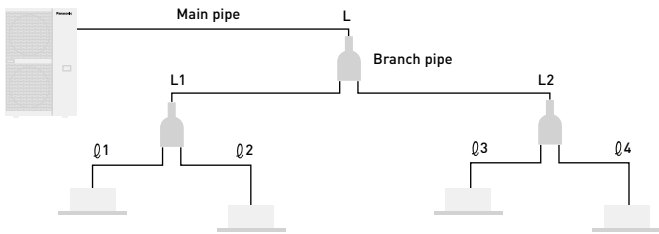
Notes on renewal for simultaneous operation of multiple units

Only main pipe is applicable for using the different diameter size.

In case of different diameter size for the branch pipes, a new installation work for a standard size is necessary.

Be sure to use our genuine branch piping for refrigerant R32.

Main pipe — L
Branch pipe
L1   L2
$\ell 1$ $\ell 2$ $\ell 3$ $\ell 4$

Notes on renewal for simultaneous operation of multiple units

Capacity class	Standard liquid pipe size	Standard gas pipe size
Type 50	Ø 6,35	Ø 12,70
Type from 60 to 140	Ø 9,52	Ø 15,88
Type 200	Ø 9,52	Ø 25,40
Type 250	Ø 12,70	Ø 25,40

· Only the main pipe L can be used among different diameter's existing piping
· Installation work as a standard size is capable for L1, L2, $\ell 1$ - $\ell 4$ piping
· Be sure to use our genuine branch piping for refrigerant R32

1. In case of single unit:
   It is not necessary to charge with additional refrigerant until the chargeless pipe length in the table 2.
   If the pipe length is exceeding the charge less pipe length, charge with additional refrigerant amount per 1 m according to the equivalent length.

2. In case of simultaneous operation of multiple units:
   Calculate the refrigerant charging amount according to the calculating method of the standard piping diameter.
   As to the additional refrigerant charging amount per 1 m, refer to the additional amount in the table 2.

Measurement procedure for Renewal

Observe the following procedure when reusing the existing piping or carrying out renewal installation work.
Flowchart of existing piping measures criteria for PZH and PZ series outdoor unit.

Flare nut size (mm)

Piping size	Ø6,35	Ø9,52	Ø12,70	Ø15,88	Ø19,05
For R32 / R410A	17	22	26	29	36
For R22 / R407C	17	22	24	27	36

See Table 3.
Level "3 Over" according to colour scale level

· Use our genuine branch piping for refrigerant R32
· Re-process the flare of existing piping for R410A and use the flare nut attached to the service valve of the outdoor unit (for R32)

* Please do not reuse the existing flare to prevent gas leak.
* Please make sure to install new flare.

Start

Do existing piping size and piping length satisfy the standard under the conditions? — N → **Existing refrigerant piping cannot be used as is. Make sure to install a new piping.**

← See Table 1 – 2

Y

Can existing air conditioner run in the cooling mode?

Y

Perform the test operation in cooling mode for over 30 minutes and collect the remaining refrigerant without stopping operation. — N → **Collect the refrigerant by the refrigerant recovery equipment.**

Remove existing indoor and outdoor units.

Remove existing indoor and outdoor units.

Check inside the piping from the pipe end. — N →

Is the oil remained inside the piping transparent? — N →

Y

Is the residue inside the piping removed? — N →

Y

Has the compressor in existing air conditioner been operated without any trouble?

Wash it thoroughly or make sure to install a new piping. Existing refrigerant piping cannot be used as is.

Y

Carry out the installation work according to Installation Instructions.

Refrigerant piping size and allowable piping length

Check if reuse of existing refrigerant piping is possible based on the following chart.
The standards other than this one (difference of elevation, etc.) are identical to the requirements of ordinary refrigerant piping.

Table 1 - Reusable existing piping (mm)

Material	O				1/2 H, H*			
External diameter	Ø6,35	Ø9,52	Ø12,70	Ø15,88	Ø19,05	Ø22,22	Ø25,40	Ø28,58
Thickness	0,80	0,80	0,80	1,00	1,00	1,00	1,00	1,00

* It is impossible to reuse the size of Ø19.05, Ø22.22, Ø25.4 and Ø28.58 for material O. Change to material 1/2H or material H.

Table 2 – 1 Refrigerant piping size: 2,5 - 14,0 kW type (mm)

Liquid pipe			Ø6,35			Ø9,52			Ø12,70	
Gas pipe			Ø9,52	Ø12,70	Ø15,88	Ø12,70	Ø15,88	Ø19,05	Ø15,88	Ø19,05
PZH3	Type 36 ~ 60	Additional gas 15 g/m	✗	Standard 40 m (30 m)	✗	✗	✗	✗	✗	✗
PZ3	Type 25		Tentative data							
	Type 36	Additional gas 10 g/m	✗	Standard 15 m (7,5 m)	✗	✗	✗	✗	✗	✗
	Type 50	Additional gas 15 g/m	✗	Standard 20 m (7,5 m)	✗	✗	✗	✗	✗	✗
	Type 60	Additional gas 15 g/m	✗	Standard 30 m (7,5 m)	✗	✗	✗	✗	✗	✗
	Type 71	Additional gas 17 g/m	✗	✗	Standard 40 m (10 m)	✗	✗	✗	✗	✗

Liquid pipe		Ø6,35			Ø9,52			Ø12,70	
Gas pipe		Ø9,52	Ø12,70	Ø15,88	Ø12,70	Ø15,88	Ø19,05	Ø15,88	Ø19,05
PZH3	Type 71	✗	□ 10 m (10 m)	□ 10 m (10 m)	▽ 30 m (30 m)	Standard 50 m (30 m)	✗	□ 25 m (15 m)	✗
	Type 100 ~ 140	✗	✗	✗	✗	Standard 85 m (30 m)	◎ 85 m (30 m)	□ 35 m (15 m)	□ 35 m (15 m)
Additional gas		20 g/m			45 g/m			80 g/m	
PZ3	Type 100 ~ 140	✗	✗	✗	✗	Standard 50 m (30 m)	◎ 50 m (30 m)	□ 25 m (15 m)	□ 25 m (15 m)
Additional gas					45 g/m			80 g/m	
PZH2	Type 50	✗	Standard 40 m (30 m)	◎ 40 m (30 m)	□ 20 m (15 m)	□ 20 m (15 m)	✗	✗	✗
PZ2	Type 60 ~ 71	✗	▽ 10 m (10 m)	□ 10 m (10 m)	▽ 30 m (20 m)	Standard 50 m (20 m)	✗	□ 25 m (10 m)	✗
Additional refrigerant charging amount per 1 m		20 g/m			40 g/m			80 g/m	
PZH2	Type 60 ~ 71	✗	▽ 10 m (10 m)	□ 10 m (10 m)	▽ 30 m (30 m)	Standard 50 m (30 m)	✗	□ 25 m (15 m)	✗
	Type 100 ~ 140	✗	✗	✗	✗	Standard 75 m (30 m)	◎ 75 m (30 m)	□ 35 m (15 m)	□ 35 m (15 m)
PZ2	Type 100 ~ 140	✗	✗	✗	✗	Standard 50 m (30 m)	◎ 50 m (30 m)	□ 25 m (15 m)	□ 25 m (15 m)
Additional refrigerant charging amount per 1 m		20 g/m			50 g/m			80 g/m	

How to see table definition (example):
In case of type 71, standard size is liquid pipe Ø9,52 / gas pipe Ø15,88.
There is a limitation to liquid pipe Ø9,52 / gas pipe Ø12,70 and to liquid pipe Ø12,70 / gas pipe Ø15,88.
However, they are applicable for different diameter's pipes.

Table 2 - 2 Refrigerant piping size: 20,0 - 25,0 kW type (mm)

Liquid pipe		Ø9,52			Ø12,70			Ø15,88		
Gas pipe		Ø22,22	Ø25,40	Ø28,58	Ø22,22	Ø25,40	Ø28,58	Ø22,22	Ø25,40	Ø28,58
PZH	Type 200	▽ 80 m (30 m)	Standard 100 m (30 m)	◎ 100 m (30 m)	▽ 50 m (15 m)	□ 50 m (15 m)	□ 50 m (15 m)	✗	✗	✗
	Type 250	✗	✗	✗	▽ 80 m (30 m)	Standard 100 m (30 m)	◎ 100 m (30 m)	▽ 65 m (20 m)	□ 65 m (20 m)	□ 65 m (20 m)
Additional refrigerant charging amount per 1 m		40 g/m			80 g/m			120 g/m		

◎ Allowable
▽ Cooling capacity down
□ Limited piping length
✗ Unallowable
50 m Maximum piping length
(50 m) Charge less piping length in a single connection

Table 3 – Deterioration Criteria for Refrigerant Oil

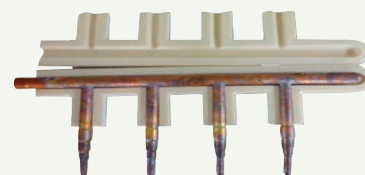| 0 | 0,5 | 1,0 | 1,5 | 2,0 | 2,5 | 3,0 | 3,5 | 4,0 | 4,5 | 5,0 | 5,5 | 6,0 | 6,5 | 7,0 | 7,5 | 8,0 |
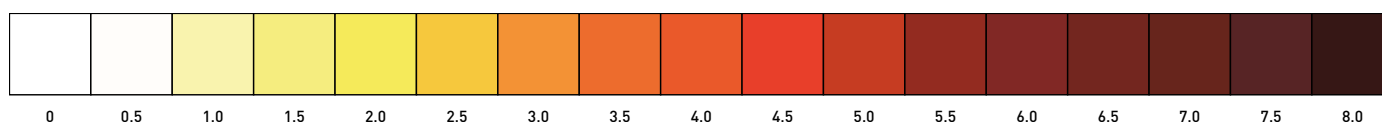
Accessories and control

Branch Pipes, Header

Branch pipe.
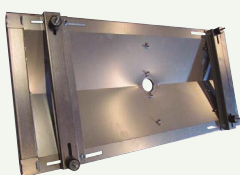————
CZ-P224BK2BM

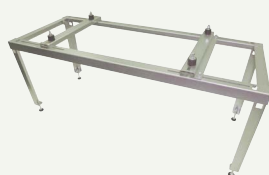**Branch pipe (from 22,4 kW to 68 kW).**
————
CZ-P680BK2BM

Header.
————
CZ-P3HPC2BM

Outdoor accessories

Tray for condenser water compatible with outdoor elevation platform.

————
PAW-WTRAY

Outdoor elevation platform.
Dimension (H x W x D): 400 x 900 x 400 mm

————
PAW-GRDSTD40

Outdoor base ground support for noise and vibration absorption.
Dimension (H x W x D): 600 x 95 x 130 mm
Weight: 500 kg
————
PAW-GRDBSE20

Panels

Standard panel for 4 way 90x90 cassette.
————
CZ-KPU3W

Econavi panel for 4 way 90x90 cassette.
————
CZ-KPU3AW

Panel for 60x60 cassette size 700 x 700 mm.
————
CZ-KPY3AW

Panel for 60x60 cassette size 625 x 625 mm.
————
CZ-KPY3BW

Sensors

Econavi energy savings sensor.
————
CZ-CENSC1

Remote temperature sensor.
————
CZ-CSRC3