PAC*i*

Panasonic Commercial air to air

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.

nanoeX

A+++

Highlighted features

PACi: Commercial air to air. The compact and high efficiency
solution for shops, restaurants, offices or residential applications.
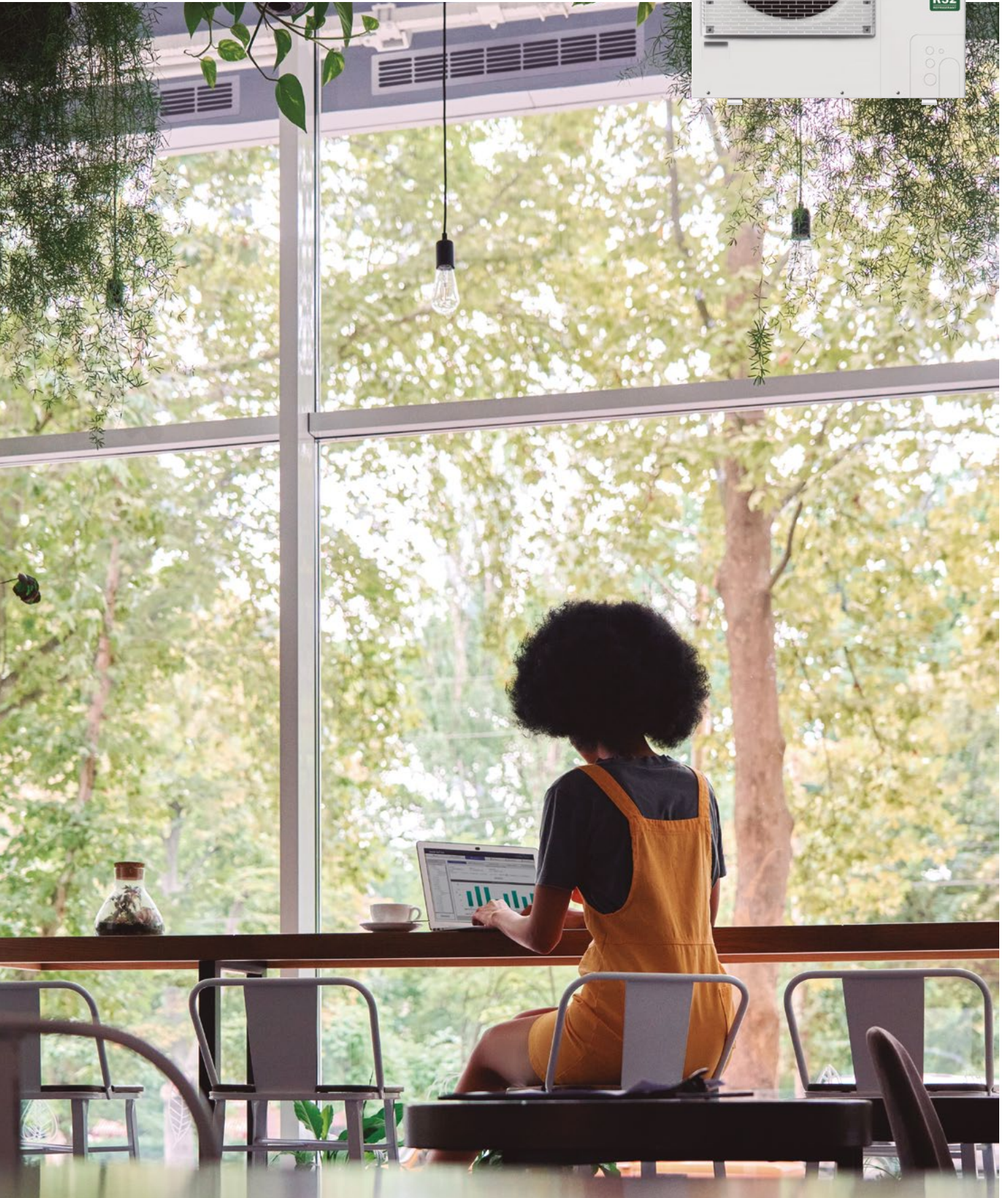
Great savings and improved comfort. Panasonic has developed an impressive range of highly efficient Commercial air conditioners, with our highly efficient Inverter compressor technology to optimise performance.
A wide range for industry, office or residential application. With configuration from 1:1 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 whether locally or remotely. Receive real-time status updates and maintenance alerts, while optimising costs and energy usage.

Energy saving

R32 refrigerant.
Our heat pumps containing R32 refrigerant 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.

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

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

Econavi.
Intelligent human activity sensor and sunlight sensor technologies that can detect and reduces the waste of energy by optimising air conditioner operation according to room conditions. With just one touch of a button, you can save energy.

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.
Panasonic Big PACi has compressors that operate with a wider Hz range realize a more efficient operation throughout the year.

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

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

Better efficiency and 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 and indoor air quality

Down to -20 °C in cooling mode.
The air conditioner works in cooling mode when the outdoor temperature of -20 °C.

Down to -20 °C in heating mode.
The air conditioner works in heat pump mode when the outdoor temperature is as low as -20 °C.

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

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

DC fan.
Safe and precise.

Filter included.
Hide-away with filter included.

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

Large fan.
Panasonic Big PACi large fan provides larger air flow rate and very quiet operation at low speed.

More comfort with Aerowings.
Wall-mounted YKEA direct air flow 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.

-20 °C operating range.
The PRO-HT Tanks work with an outdoor temperature is as low as -20 °C.

Up to 46 °C in cooling mode.
PACi with Water Heat Exchanger system works in cooling mode at outdoor temperature up to 46 °C.

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

5 Years compressor warranty.
We guarantee the outdoor unit compressors in the entire range for five years.

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 optimising 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, and control of, your Panasonic heat pump to your home or building management system.

Domestic integration to S-Link - CZ-CAPRA1.
Can connect RAC range to S-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.

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
REFRIGERANT

Professional air conditioners with R32 refrigerant.

Panasonic recommends R32, with lower Global Warming Potential (GWP). Compared to R22 and R410A, R32 has a low potential impact on global warming.
Panasonic takes action in helping to protect 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%
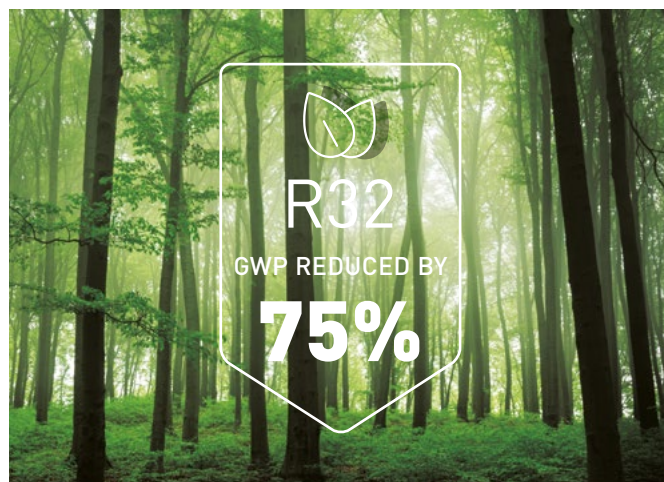
PACi NX Elite: Top-tier commercial air conditioning

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 approvals to ensure quality and safety
· Top class SEER: 8,9 A+++ / SCOP: 5,1 A+++ at 3,6 kW (in 90x90 cassette)

· Cooling operation is possible with 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 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 in very challenging locations.

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

· Great balance of system cost and performance
· Top class SEER / SCOP in the standard Inverter category SEER: 8,1 A++ / SCOP: 4,8 A++ at 3,6 kW (in 90x90 cassette)
· Variety of individual and central controllers which provides full flexibility
· Compact outdoor units, small footprint and lightweight
· Twin connection possible from 10,0 to 14,0 kW
· 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 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

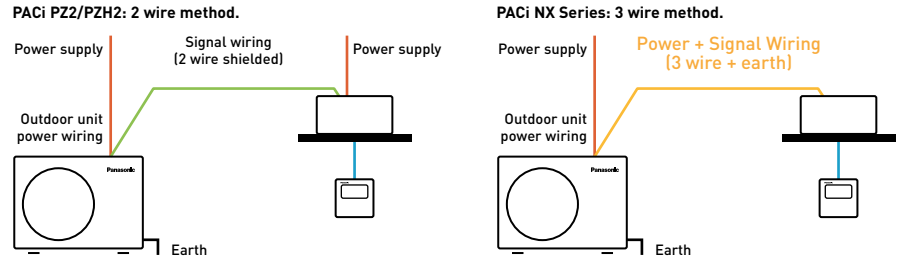# PACi NX Series. The next generation is here

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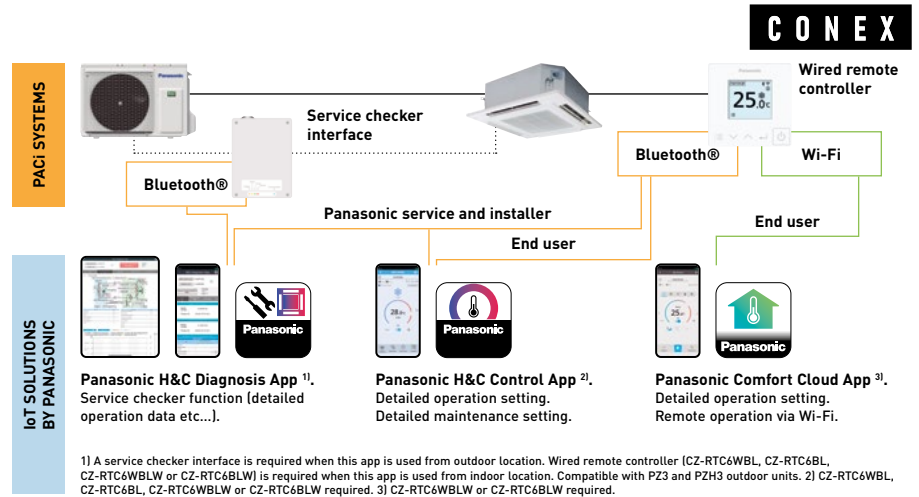Integrated with IoT solutions and includes nanoe™ X function as standard.

1 PACi NX Series for absolute ease of refurbishment

This series have been developed with 3 wire power 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 supply — Signal wiring (2 wire shielded) — Power supply

Outdoor unit power wiring

Earth

PACi NX Series: 3 wire method.

Power supply — Power + Signal Wiring (3 wire + earth) —

Outdoor unit power wiring

Earth

2 CONEX with IoT integration

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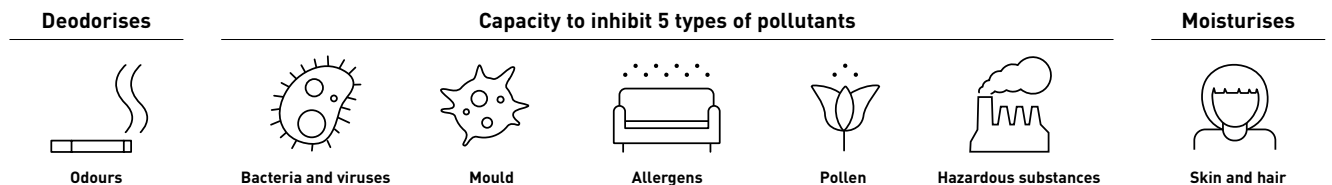Detailed operation, maintenance setting and service operation are all possible with smartphone or tablet.

https://youtu.be/_USzG_9f6bk

CONEX

PACi SYSTEMS

Service checker interface

Wired remote controller

Bluetooth®

Bluetooth®

Wi-Fi

Panasonic service and installer

End user

End user

IoT SOLUTIONS BY PANASONIC

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

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-RTC6WBL, CZ-RTC6BL, CZ-RTC6WBLW or CZ-RTC6BLW) is required when this app is used from indoor location. Compatible with PZ3 and PZH3 outdoor units. 2) CZ-RTC6WBL, CZ-RTC6BL, CZ-RTC6WBLW or CZ-RTC6BLW required. 3) CZ-RTC6WBLW or 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

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.

REFER TO PAGE 10 FOR MORE DETAILS AND VALIDATION DATA

4 Increasing the efficiency

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

Energy class [1] and seasonal efficiency value ($\eta_{s,c}$ / $\eta_{s,h}$) [2]

kW	Wall-mounted - PK3				4 way cassette - PY3				4 way cassette - PU3				Ceiling - PT3				Adaptive ducted - PF3			
	Elite		Standard		Elite		Standard		Elite		Standard		Elite		Standard		Elite		Standard	
	❄	☀	❄	☀	❄	☀	❄	☀	❄	☀	❄	☀	❄	☀	❄	☀	❄	☀	❄	☀
2,5							A++	A++												
3,6	A++	A++	A++	A+	A++	A++	A++	A+	A+++	A+++	A++	A++	A++	A++	A++	A+	A++	A+	A+	A+
5,0	A++	A++	A++	A+	A++	A++	A++	A+	A++	A++	A++	A++	A++	A++	A++	A+	A++	A+	A++	A+
6,0	A++	A++	A++	A++	A++	A+	A++	A+	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
7,1	A++	A++	A+	A+					A++	A++	A++	A++	A++	A++	A+	A+	A++	A++	A++	A+
10,0	A++	A+	A++	A					A++	A++	A++	A+	A++	A++	A++	A+	A++	A+	A++	A
12,5									304,3%	186,0%	267,0%	157,0%	278,4%	181,0%	241,7%	147,4%	281,7%	170,0%	257,4%	142,6%
14,0									286,6%	181,2%	257,0%	152,2%	263,3%	178,0%	228,8%	145,3%	275,9%	171,0%	252,2%	140,6%

1) Energy label scale from A+++ to D for models below 12,0 kW (EU regulation 626/2011). 2) $\eta_{s,c}$ / $\eta_{s,h}$ values for models above 12,0 kW (EN 14825).
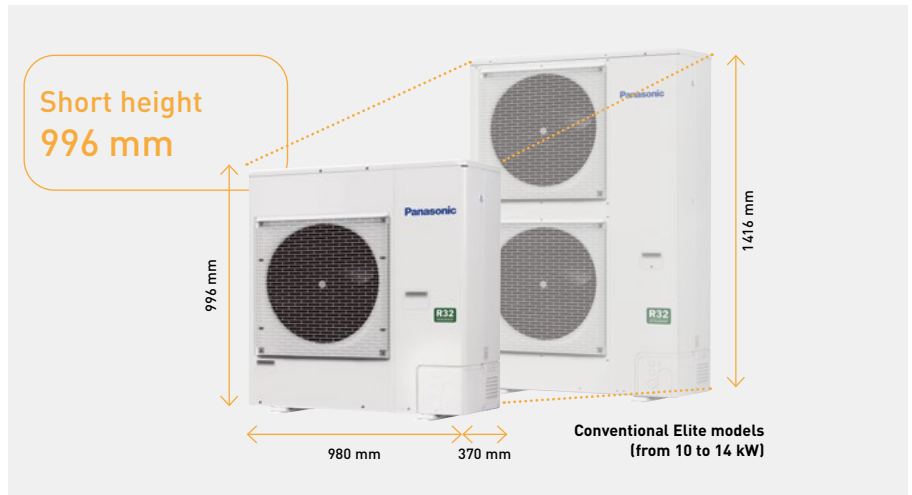
New PACi NX Elite Series 4

**The compact chassis newly designed with one fan up to 14,0 kW, will fit in limited installation space**

The slim and lightweight outdoor units can be installed in a number of compact situations.
With the unit weighting only 66 kg*, it is easy to carry and easy to install.

* For model 7,1 kW.

Short height
996 mm

996 mm

1416 mm

980 mm   370 mm

Conventional Elite models
(from 10 to 14 kW)

Highly efficient performance in a compact body

One fan outdoor units keep the excellent seasonal performance optimising three layers heat exchanger.
As a result, PZH4 series provide the equivalent high seasonal performance to conventional 2 fan models.
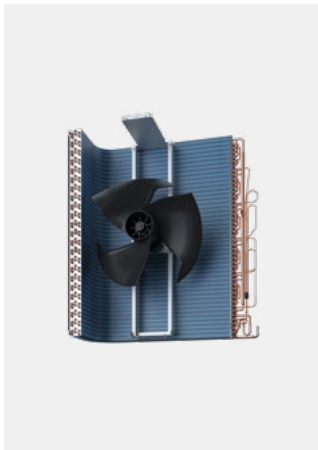
New Elite PZH4 Series.
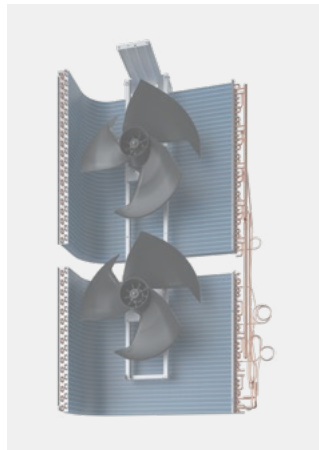
Conventional model with two fans.

PZH series seasonal performance.

SEER / SCOP

8,0

6,0

4,0

2,0

0

7,7   7,8
4,8   4,9

7,1 kW   10,0 kW

* 4 way 90x90 cassette.

$\eta_{s,c}$ / $\eta_{s,h}$

350,0

300,0

250,0

200,0

150,0

100,0

50,0

0

304,3   286,6
186,0   181,2

12,5 kW   14 kW

SEER   SCOP
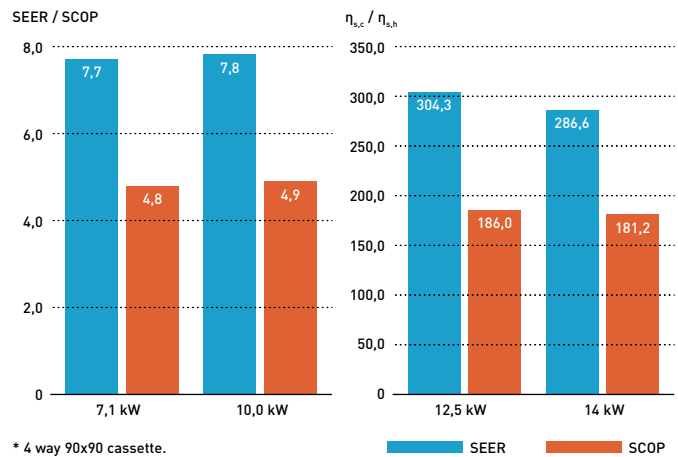
Extended operation range up to 52 °C in cooling and down to -20 °C in heating

Upgraded PACi NX Elite Series are capable of working even in the challenging ambient conditions. Cooling operation is possible when outdoor temperature is as low as -20 °C* or as high as 52 °C.
Heating operation can also be utilized at outdoor temperatures down to -20 °C when outdoor temperature is as low as -20 °C.

* For models 10,0 ~ 14,0 kW with pipe length up to 30 m.

Cooling design operation conditions.

52 °C

-25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55

Heating design operation conditions.

-20 °C

-25 -20 -15 -10 -5 0 5 10 15 20 25
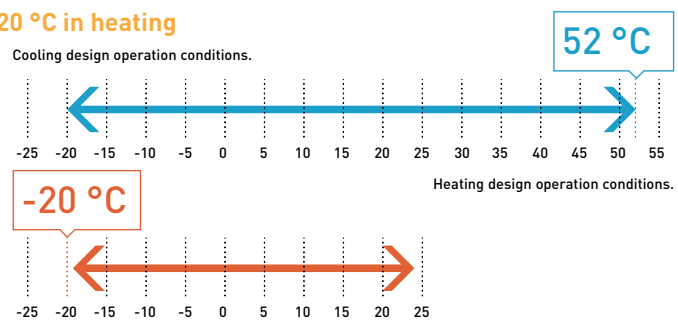
Long piping allowance maximum 100 m*

Increased piping length gives great design flexibility to adapt various building types and sizes.
Piping length: 100 m (10,0 to 14,0 kW), 60 m (7,1 kW)

* For models 10,0 ~ 14,0 kW.

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

Maximum total pipe length:
100 m
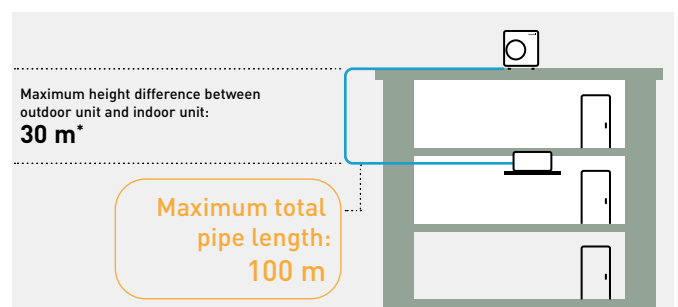
* 15 m if the outdoor unit is below the indoor unit.

CONEX. 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.

New 2023

1 Intuitive control with stylish design
· Simple operation at a glance
· Clean face with full flat and LCD display
· Compact body, only 86x86 mm

2 Control comfort with your smartphone
· Flexible control options with IoT integration
· 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
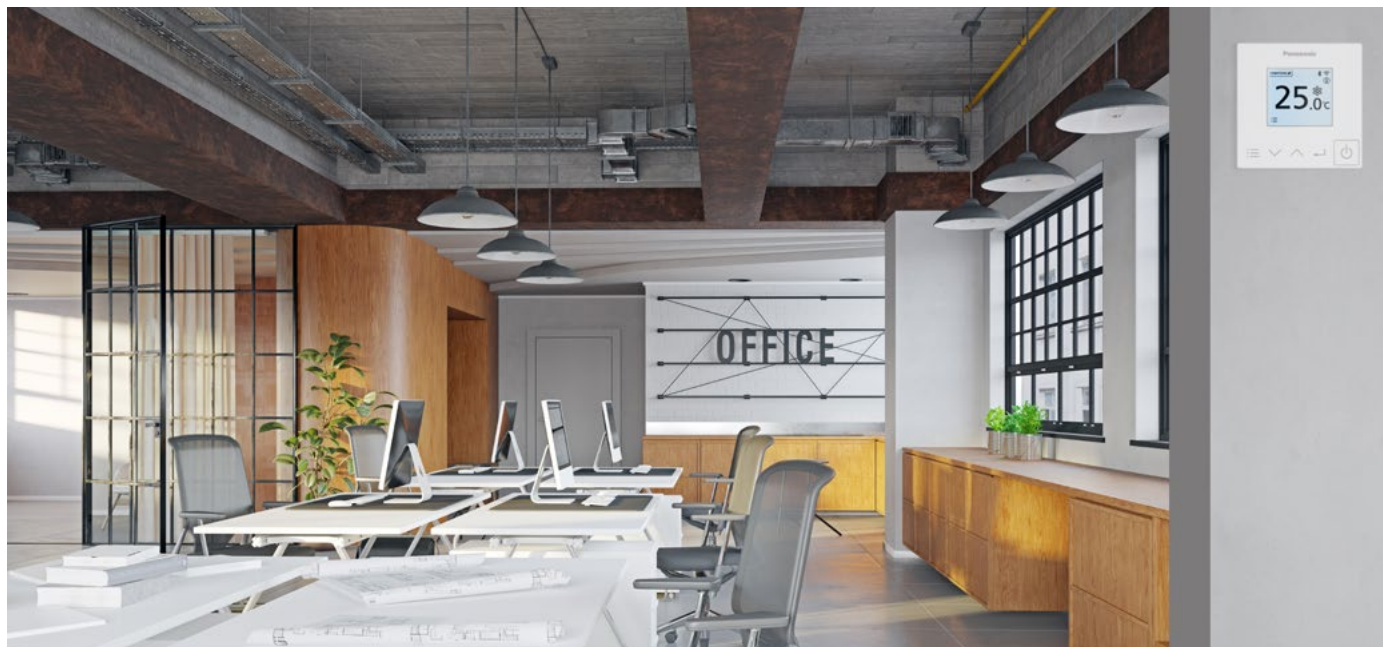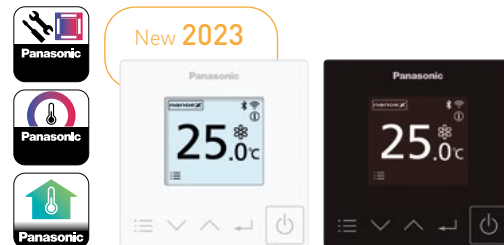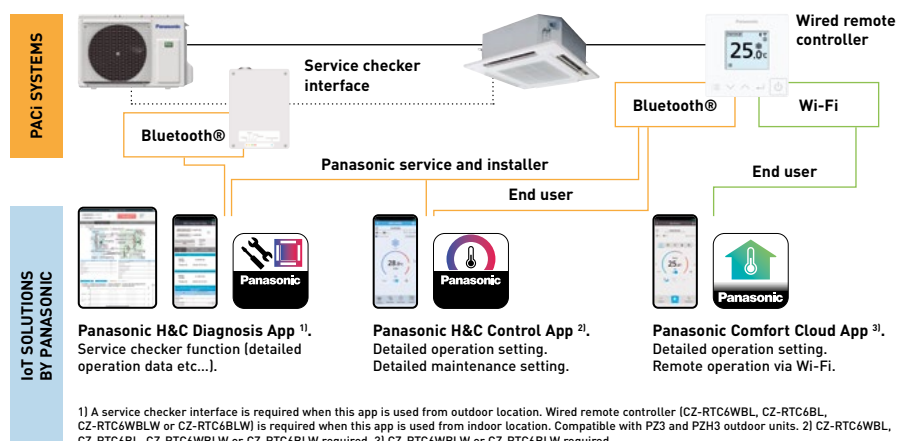· Quick and easy app set-up for system setting
· Panasonic H&C Diagnosis App enables the user to obtain detailed system operation data

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

CONEX with IoT integration

CONEX

The 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://youtu.be/_USzG_9f6bk

PACi SYSTEMS

Service checker interface

Bluetooth®

Wired remote controller

Bluetooth®

Wi-Fi

Panasonic service and installer

End user

End user

IoT SOLUTIONS BY PANASONIC

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

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-RTC6WBL, CZ-RTC6BL, CZ-RTC6WBLW or CZ-RTC6BLW) is required when this app is used from indoor location. Compatible with PZ3 and PZH3 outdoor units. 2) CZ-RTC6WBL, CZ-RTC6BL, CZ-RTC6WBLW or CZ-RTC6BLW required. 3) CZ-RTC6WBLW or CZ-RTC6BLW required.

	CZ-RTC6W	CZ-RTC6WBL	CZ-RTC6WBLW
White model [1]	CZ-RTC6W	CZ-RTC6WBL	CZ-RTC6WBLW
Black 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 [2]	—	✔ PACi NX only [3]	✔ PACi NX only [3]
Outdoor unit settings (remote controller connected to indoor unit)	✔ PACi NX only [3]	✔ PACi NX only [3]	✔ PACi NX only [3]

1) Available in Autumn 2023. 2) Compatible with U-71/100/125/140PZH3E5/8 and U-100/125/140PZ3E5/8. 3) 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 indoor 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.

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 up to 8 indoors.

2 Voice control compatible
When registering the unit to Panasonic Comfort Cloud App makes it 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 via T10 connector and R1/R2 terminal connectors.

RC Terminal (R1,R2)

T10

Communication line: 1,9 m

POWER
LINK
RESET
SETUP

Wireless LAN

Download free app:
Panasonic Comfort Cloud App.

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

Panasonic Cloud Server is designed, operated and managed by Panasonic.
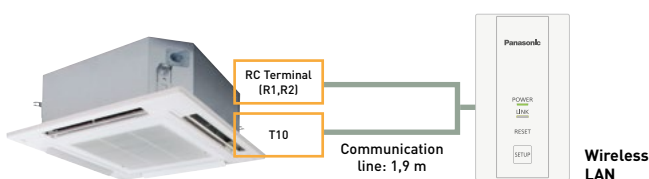
Input Voltage	DC 12 V (supplied from T10 connector)
Power Consumption	Maximum 2,4 W
Size (H x W x D)	120 x 70 x 25 mm
Weight	190 g (including communications lines)
Interface	1 x Wireless LAN
Wireless LAN Standard	IEEE 802,11 b/g/n
Frequency Range	2,4 GHz band
Operating range	0 ~ 55 °C, 20 ~ 80 RH%
Connectable indoor unit	1 unit
Length of communication line	1,9 m (included)
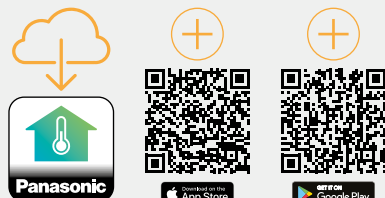
Bringing nature's balance indoors

+ **nanoeX**™

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 more pleasant place to be, whether at home, work, or visiting hotels, shops and restaurants etc.

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.
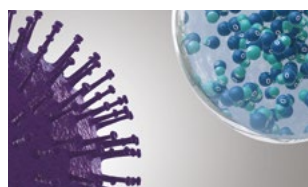
1 | nanoe™ X reliably reaches pollutants.
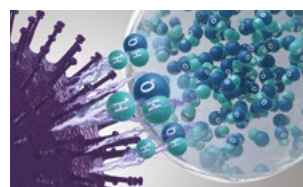
2 | Hydroxyl radicals denature pollutants' proteins.
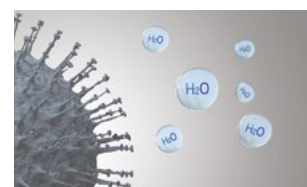
3 | Pollutants activity is inhibited.

What is unique about nanoe™ X?

Effective on fabrics and surfaces.
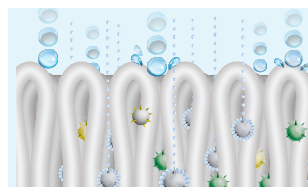
1 | At one billionth of a metre, nanoe™ X is much smaller than steam and can deeply penetrate cloth fabrics to deodorise.

Longer lifespan.

2 | Contained in tiny water particles, nanoe™ X has a long lifespan, which is about 600 seconds, to spread easily around the room.

Huge quantity.

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.

Maintenance-free.
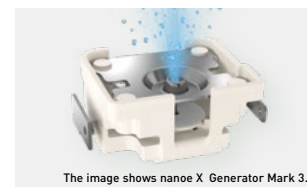
The image shows nanoe X Generator Mark 3.

4 | No service and maintenance 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
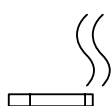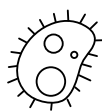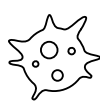
Deodorises	Capacity to inhibit 5 types of pollutants					Moisturises
Odours	Bacteria and viruses	Mould	Allergens	Pollen	Hazardous substances	Skin and hair

* 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, Japan and China.

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.

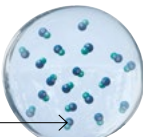|		Tested contents	Generator	Result	Capacity	Time	Testing organisation	Report No.
Airborne	Virus	Influenza (H1N1)	**Mark 2**	98,3% inhibited	30 m³	1,5 h	China Electronic Product Reliability and Environmental Testing Research Institute	J2003WT8888-00889
		Bacteriophage ΦX174	Mark 1	99,7% inhibited	Approx. 25 m³	6 h	Kitasato Research Center for Environmental Science	24_0300_1
	Bacteria	Staphylococcus aureus	Mark 1	99,9% inhibited	Approx. 25 m³	4 h	Kitasato Research Center for Environmental Science	2016_0279
Adhering	Virus	SARS-CoV-2	Mark 1	91,4% inhibited	6,7 m³	8 h	Texcell (France)	1140-01 C3
		SARS-CoV-2	Mark 1	99,9% inhibited	45 L	2 h	Texcell (France)	1140-01 A1
		Bacteriophage ΦX174	Mark 1	99,8% inhibited	Approx. 25 m³	8 h	Japan Food Research Laboratories	13001265005-01
		Xenotropic murine leukemia virus	Mark 1	99,999% inhibited	45 L	6 h	Charles River Biopharmaceutical Services GmbH	—
		Coxsackie virus (CA16)	**Mark 2**	99,9%inhibited	30 m³	4 h	China Electronic Product Reliability and Environmental Testing Research Institute	J2002WT8888-00439
	Bacteria	Staphylococcus aureus	Mark 1	99,9% inhibited	20 m³	8 h	Danish Technological Institute	868988
	Pollen	Cedar	**Mark 2**	99%inhibited	23 m³	12 h	Panasonic Product Analysis Center	L19YA009
		Ambrosia pollen	Mark 1	99,4% inhibited	20 m³	8 h	Danish Technological Institute 868988	868988
	Odours	Cigarette smoke odour	Mark 1	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
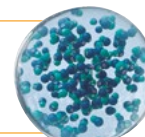
Generator: nanoe™	Generator: nanoe™ X		
2003	**Mark 1** - 2016	**Mark 2** - 2019	**NEW Mark 3** - 2022
480 billion hydroxyl radicals/sec	4,8 trillion hydroxyl radicals/sec	9,6 trillion hydroxyl radicals/sec	48 trillion hydroxyl radicals/sec

Ion particle structure
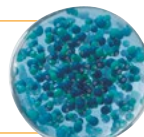
Hydroxyl radicals →
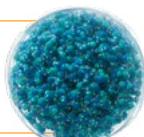
10x times

20x times

100x times

nanoe™ X: improving protection 24/7
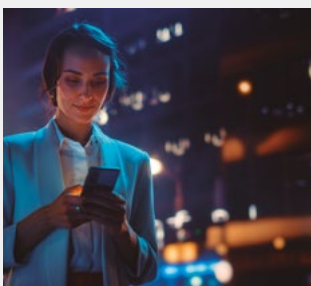
Acts to clean your air, so that the indoor environment can be a cleaner and more pleasant place to be all day long. nanoe™ X works together with heating or cooling function when you are at home and can work independently when you are away.
Give the air conditioning the strength to increase the protection at home with nanoe™ X technology and convenient control via the Panasonic Comfort Cloud App.

nanoeX Improving Protection 24/7

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 60x60 cassette.
Built-in nanoe X Generator Mark 2.

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

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

Ceiling mounted air-e nanoe X Generator.
Built-in nanoe X Generator Mark 1.

PACi NX 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™

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: 8,9 A+++ / SCOP: 5,1 A+++*
· Econavi: Intelligent sensors to increase energy savings and comfort
· Super quiet operation down to 27 dB(A)

* For 3,6 kW model.

3 **Easy installation**

· Light weight, easy piping and integrated drain pump for quick installation
· Wired remote controller CZ-RTC6WBL and 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, CZ-RTC6W/BL/BLW 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.
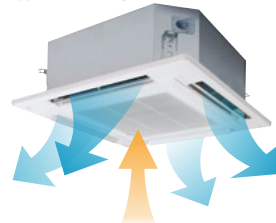
Operates the fan to discharge internal humidity.
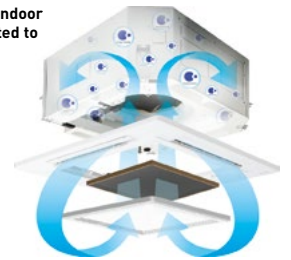
Operate the fan to circulate nanoe™ X internally.

nanoe™ X effect against odour proven in large space

92% of hexadecane [1] is inhibited after 8-hours exposure in room side 267 m².

Hexadecane inhabitation ratio (%).

14 %

Initial   Natural reduction   Initial   With nanoeX

92% inhibited

8 hours later
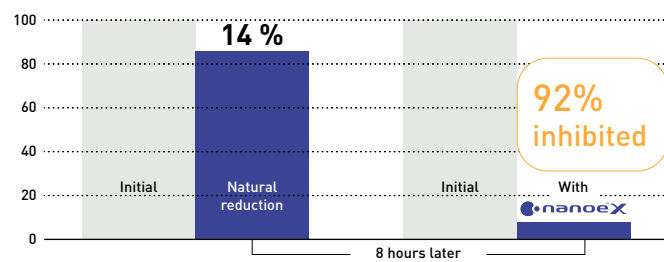
Test ambient.

3rd party certification organization SIRIM [2] conducted the performance experiment of 4 way cassette equipped with nanoe X Generator Mark 1 device in inhibiting hexadecane, a chemical contaminant.

1) Hexadecane is a hazardous substance contained in gasoline and diesel exhaust gas, and considered to be one cause of oil odour. 2) 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
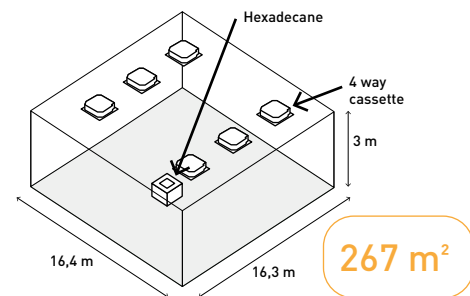
Optional Econavi intelligent sensor

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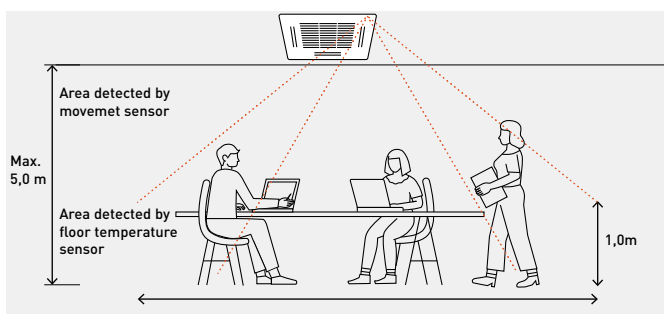
Advanced Econavi functions.

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.

INTELLIGENT ECO SENSORS
ECONAVI

Area detected by movemet sensor

Max. 5,0 m

Area detected by floor temperature sensor

1,0m

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, CZ-RTC6W/BL/BLW or CZ-RTC6/ BL/BLW is required.

PACi NX adaptive ducted unit - PF3

The adaptive ducted units provide better flexibility with both installation possibilities, horizontal and vertical. The powerful external static pressure, maximum 150 Pa.

nanoe X

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

2 High seasonal performance with slim body
Maximum SEER: 7,4 A++ [1] / SCOP: 4,7 A++ [2].

[1] For 10,0 kW model. 2) For 7,1 kW model.

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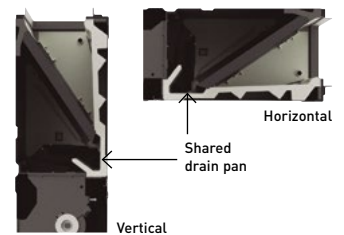
Selectable inlet air position
Inlet air position may be adjusted by means of a removable panel, to allow rear or bottom entry, depending on the duct installation.

or
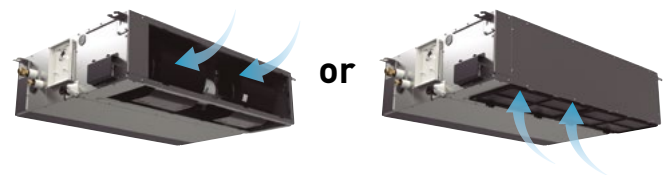
Maximum efficiency

Energy class [1] and seasonal efficiency value ($\eta_{s,c}$ / $\eta_{s,h}$) [2]

	kW	3,6	5,0	6,0	7,1	10,0	12,5	14,0
Elite	❄	A++	A++	A++	A++	A++	281,7%	275,9%
	☀	A+	A+	A++	A++	A+	170,0%	171,0%
Standard	❄	A+	A++	A++	A++	A++	257,4%	252,2%
	☀	A+	A+	A++	A+	A	142,6%	140,6%

1) Energy label scale from A+++ to D for models below 12,0 kW (EU regulation 626/2011). 2) $\eta_{s,c}$ / $\eta_{s,h}$ values for models above 12,0 kW (EN 14825).

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

Conventional model	Adaptive ducted
33 kg	30 kg
290 mm	250 mm

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

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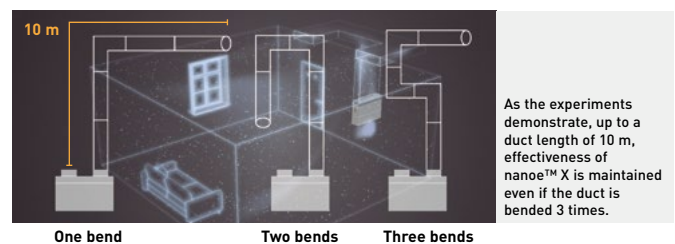
As the experiments demonstrate, up to a duct length of 10 m, effectiveness of nanoe™ X is maintained even if the duct is bended 3 times.

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.
Odour level / Natural reduction / nanoe™ X / Time (hour)

nanoe™ X reduced by **0,7 rank**
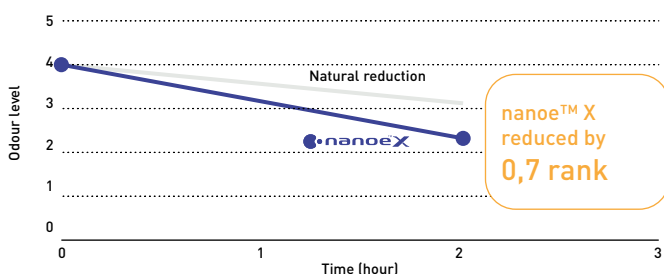
Test ambient.
3rd party international testing institute KAKEN [1] conducted the performance experiment of Adaptive ducted equipped with nanoe X Generator Mark 2 device removing tobacco odour.

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
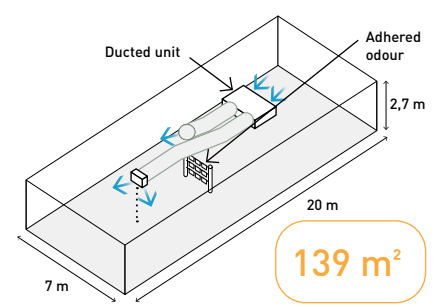
PACi NX wall-mounted, 4 way 60x60 cassette and ceiling

A new era of air conditioning solutions are here, with built-in nanoe™ X technology.

nanoe X

PACi NX wall-mounted - PK3.
Providing a small, lightweight and low noise level design, it is ideal for small offices and other commercial applications. It also has a stylish smooth design with a washable front panel.
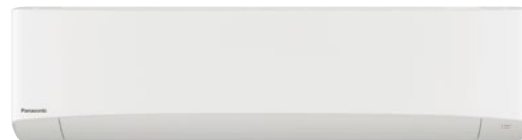
Air distribution is automatically altered depending on the operational mode of the unit

Air outlet angle is automatically adjusted for cooling and heating operation.
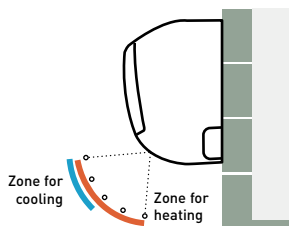
Zone for cooling
Zone for heating

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.

Piping outlet in six directions

Piping outlet is possible in six directions of; right, right rear, right bottom, left, left rear and left bottom, making installation flexible.

SEE PRODUCT SPECIFICATIONS

PACi NX 4 way 60x60 cassette - PY3.
The PY3 not only perfectly matches with 600 x 600 mm ceiling grids but also provides an additional benefit for better indoor quality, with nanoe™ X built-in.

Industry-leading energy efficiency

· Energy class A++* with Elite outdoor range
· Energy class A++ with Standard outdoor range 2,5 kW model

* Except for 6,0 kW.

Internal cleaning function

When cooling or dry operation stopped, internal drying and nanoe™ X circulation airflow is activated in order to suppress the mould proliferation inside the unit (airflow passage, fan, heat exchanger)*.

* Depending on the installation environment or operating hours, mould proliferation or inhabitation of mould growth will be changed.

Compact and stylish design

· Required ceiling depth of only 250 mm
· Exposed area is only 30 mm

Individual flap control

Better control of the air flow with 4 motors, providing individual flap control. Perfect air distribution without direct airflow, to reduce the feeling of cold drafts.
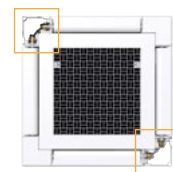
SEE PRODUCT SPECIFICATIONS

PACi NX ceiling - PT3.
Providing outstanding energy-saving performance, comfort and long-distance airflow distribution, these units are perfect for retail stores and schools.

Comfortable, long-distance airflow distribution

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

* Results are based on specific testing conditions.

Ceiling height:
4,3 m*

Air flow distance:
9,5 m*
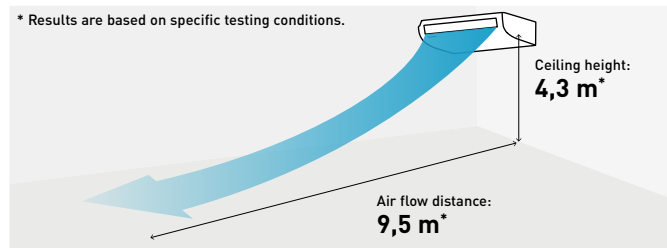
Compact looking, stylish, one-motion design

With its streamlined, one-motion form, the unit looks thin and compact when installed for a neat appearance in any room. When not operating, the louver closes to provide an elegant look while also keeping the unit clean.

Energy-saving technology delivering top-class efficiency

Optimisation of the shape of the casing and fan assures bigger air flow and higher efficiency. Energy-saving performance is top class in the industry. Thanks to new DC fan motor and large diagonal air flow fan.

SEE PRODUCT SPECIFICATIONS

173

Solutions for server rooms applications

Effectively protect your IT related spaces, 24/7, with a complete range of solutions offering redundancy control. High efficiency products provide reliable cooling all year round.

NON STOP
OPERATION
24/7
365

YKEA server room solution.

· Perfect solution for smaller server rooms
· Compact design
· Reaching SEER value of 9,6 (A+++) [1]
· High seasonal performance
· Range of capacities available
· Operation down to -25 °C ambient

1) For 3,5 kW unit.

PACi solution.

· Scalability for larger applications
· Twin, triple and double-twin options [1]
· Increased piping lengths of up to 90 m [2]
· Increased sensible capacity options available
· Flexible and adaptable control options

1) Compatible with PAW-PACR4 only. 2) For Big PACi 20 kW unit.

Redundancy ensured by three different functionalities..

Computer and server rooms are very sensitive areas of application. Any downtime caused by high room temperatures must be avoided by any means. Air conditioner redundancy is one of the key points to ensure a reliable nonstop cooling operation.

1 Backup operation

When an air conditioner fails for whatever reason, another one will awake from standby mode and cover the room's cooling load.

Power supply error or PCB error

| System 1 | Operation | ⚠ Error |
| System 2 | Stand by | Operation |
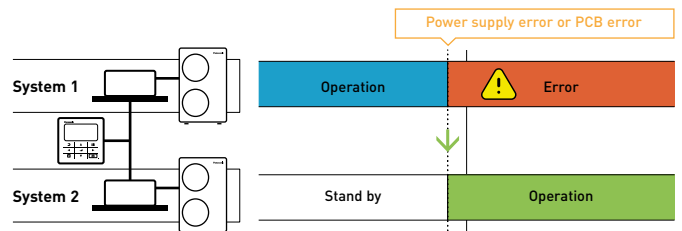
2 Support operation

Support operation, also called cascade control, makes sure that the capacity required to cool the room is delivered by one or more units whenever required. When the capacity of 1 air conditioner is not sufficient, another one will be started to support the operation.

Temperature threshold exceeded (cooling)   Temperature falls below threshold (cooling)

| System 1 | Operation | Operation | Operation |
| System 2 | Stand by | Operation | Stand by |
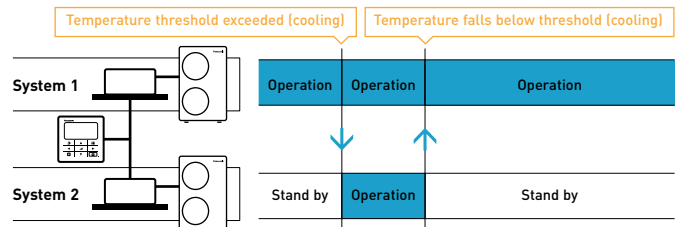
3 Rotation operation

Backup and support operation are key functions for a redundant operation in computer rooms. This concept implies a main system and a sub system. In order to avoid an imbalance of the operating hours of the systems, the redundancy control equalises the operation time by rotating the main and the sub systems, thus providing a "rotation operation".

| System 1 | Operation | Stand by | Operation | Stand by | Operation |
| System 2 | Stand by | Operation | Stand by | Operation | Stand by |
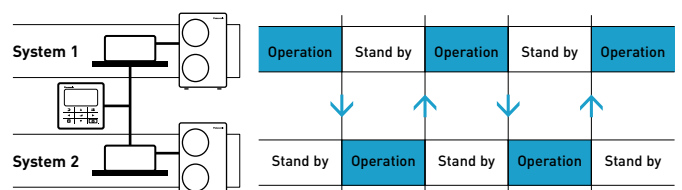
Redundancy control options for 24/7/365 applications

YKEA integral solution

· Ideal solution for small server rooms, providing full redundancy functionality integrated in YKEA's remote controller (requires optional CZ-RCC5 cable set)
· Up to 2 YKEA systems connectable to 1 remote controller
· Individual alarm display for each system
· Operation can be monitored by H&C Controls App (via WLAN)
· No digital inputs/outputs

Remote controller
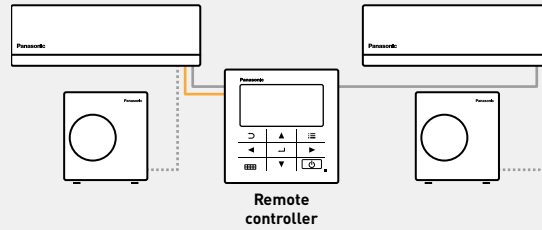
Optional interface for YKEA units

PAW-SERVER-PKEA
· Ideal solution for small server rooms, providing full redundancy functionality
· Up to 2 YKEA systems connectable to PAW-SERVER-PKEA
· Additional benefits: Operation and alarm outputs for each system, ON / OFF inputs for each system for connection to external BMS

Cable length 5 meters each

Output alarm signals.
Units A and B (2 dry contact maximum 48 V)

Output run signals.
Units A and B (2 dry contact maximum 48 V)

Input ON / OFF signals.
Units A and B (2 dry contact)

PAW-SERVER-PKEA   Remote controller
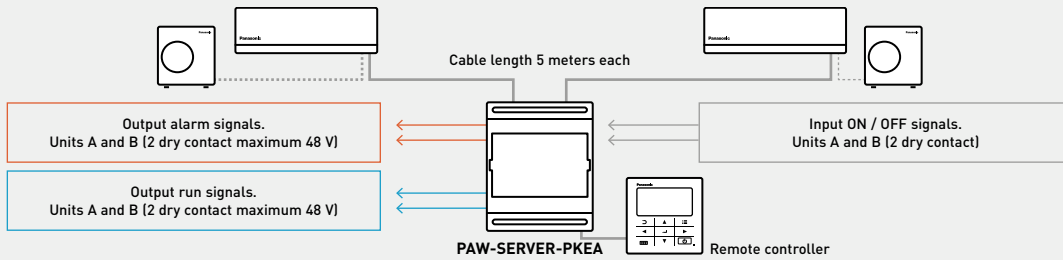
PACi integral solution

CZ-RTC5B / CZ-RTC6W / CZ-RTC6 / CZ-RTC6WBL / CZ-RTC6BL / CZ-RTC6WBLW / CZ-RTC6BLW
· Full redundancy functionality
· Quick and easy installation using PACi group control
· Up to 2 PACi systems connectable to 1 remote controller
· Delta T setting for support operation selectable from 4 to 10 K
· Connectable to Panasonic centralised control systems
· Optional interfaces for connection to external BMS (Modbus, BACnet, KNX)

CZ-RTC5B

Remote controller
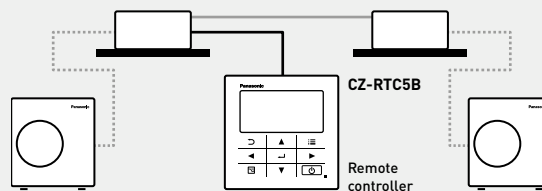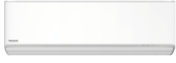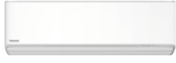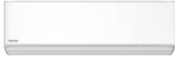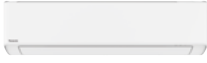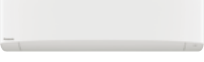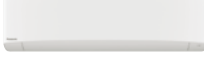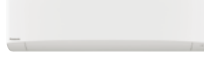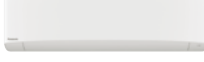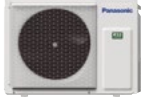
NEW Optional interface up to 4 indoor units PACi or VRF

PAW-PACR4
· Redundancy control up to 4 indoor unit groups
· Actual unit operation / alarm status can be displayed
· Common digital alarm / operation status output
· For each support operation level, individual temperature thresholds can be set (cascade control)
· Room temperature display (by device's own temperature sensor)
· Modbus connection (up to 4 PAW-RC2-MBS-1)
· Available external inputs (ON / OFF, heating/ cooling change, fire prevention contact)

PAW-PACR4

Status contacts   Room sensor   Operation contacts
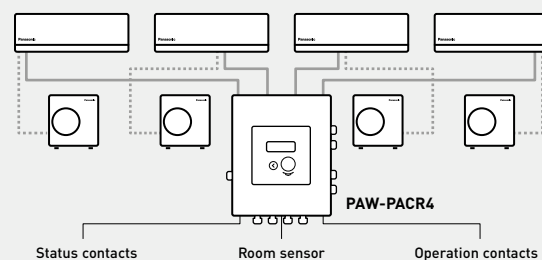
Commercial units range

Page	Indoor units	2,5 kW	3,6 kW	4,5 kW [1]	5,0 kW	6,0 kW
P. 178	Wall-mounted Professional · R32 [2]	CS-Z25YKEA	CS-Z35YKEA	CS-Z42YKEA	CS-Z50YKEA	
P. 180	PACi NX wall-mounted · R32		S-3650PK3E	S-3650PK3E	S-3650PK3E	S-6010PK3E
P. 184	PACi NX 4 way 60x60 cassette · R32	S-25PY3E	S-36PY3E		S-50PY3E	S-60PY3E
P. 186	PACi NX 4 way 90x90 cassette · R32		S-3650PU3E	S-3650PU3E	S-3650PU3E	S-6071PU3E
P. 190	PACi NX ceiling · R32		S-3650PT3E	S-3650PT3E	S-3650PT3E	S-6071PT3E
P. 194	PACi NX adaptive ducted · R32		S-3650PF3E	S-3650PF3E	S-3650PF3E	S-6071PF3E
P. 198	High static pressure hide-away 20-25 kW · R32					

Outdoor units	2,5 kW	3,6 kW		5,0 kW	6,0 kW
PACi NX Elite · R32		U-36PZH3E5		U-50PZH3E5	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. 2) Not compatible with PACi NX outdoors and accessories. Domestic range sales conditions may apply. Check with your sales representative. 3) These two units are not in PACi NX range but part of Big PACi range. * U-___E5 Single phase / U-___E8 Three phase.

OPTIONAL UNITS ON VENTILATION SECTION

7,1 kW	10,0 kW	12,5 kW	14,0 kW	20,0 kW	25,0 kW
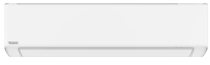
CS-Z71YKEA

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-71PZH4E5 / U-71PZH4E8   U-100PZH4E5 / U-100PZH4E8   U-125PZH4E5 / U-125PZH4E8   U-140PZH4E5 / U-140PZH4E8   U-200PZH2E8 [3]   U-250PZH2E8 [3]

U-71PZ3E5A   U-100PZ3E5 / U-100PZ3E8   U-125PZ3E5 / U-125PZ3E8   U-140PZ3E5 / U-140PZ3E8

YKEA series 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 -25 °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 with extreme ambient conditions.

2 Remote controller for better usability

Wired remote controller, which can assure the operation 24/7 of two server room units, thanks to the integrated duty rotation mode. This function manages rotation and backup of two units and it is available when connecting an optional CN-CNT cable (CZ-RCC5) between the controller and each of the two indoor units.

Not compatible with PACi NX outdoors and accessories. Domestic range sales conditions may apply. Check with your sales representative.
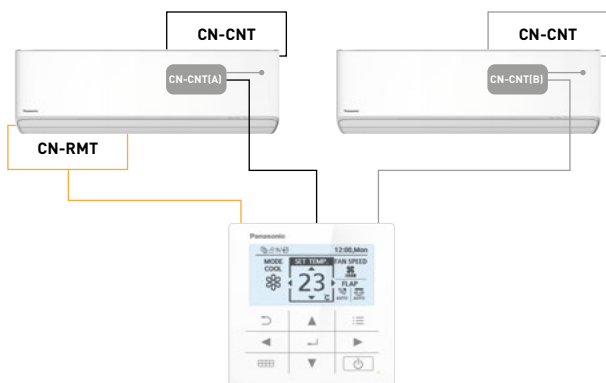
3 Highest energy rating in cooling

The SEER and SCOP of the Server room unit has been further improved to achieve top class energy efficiency. The 3,5 kW unit reaches now the SEER value of 9,6 (A+++).

4 Built-in Wi-Fi and compatible with Voice Assistant

The unit is ready to connect to the internet and to be controlled by smartphone with Panasonic Comfort Cloud App. Control, monitor energy consumption statistics and easily identify errors in case of failure.
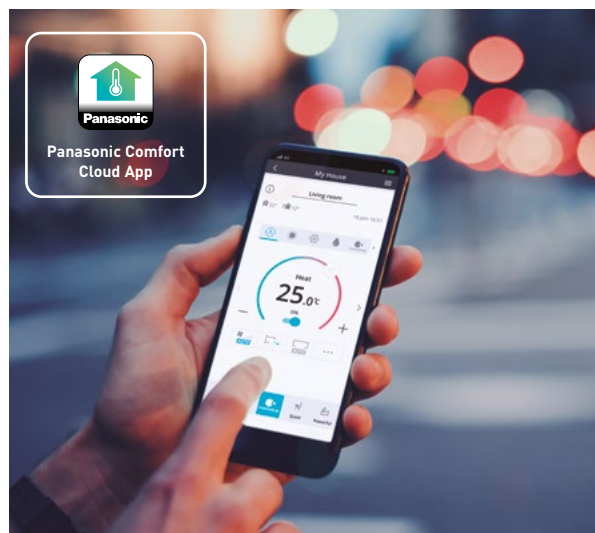
Panasonic Comfort Cloud App

Wall-mounted Professional -25 °C · R32

· Designed for 24h/7d a week operation
· Wired remote controller, with optional duty rotation mode
· Improved SEER / SCOP to achieve top class energy efficiency
· Aerowings 2.0, for a better control of the airflow
· Built-in Wi-Fi for instant connectivity via Panasonic Comfort Cloud App
· Compatible with Google Assistant and Amazon Alexa
· Chassis and parts designed for easier installation

Kit			KIT-Z25-YKEA	KIT-Z35-YKEA	KIT-Z42-YKEA	KIT-Z50-YKEA	KIT-Z71-YKEA
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,50)	3,50 (0,85 - 4,20)	4,20 (0,85 - 5,00)	5,00 (0,98 - 6,00)	7,10 (0,98 - 8,50)
EER [1]	Nominal (Min - Max)	W/W	4,90 (4,72 - 3,98)	4,12 (4,72 - 3,68)	3,82 (4,72 - 3,25)	3,68 (3,92 - 3,16)	3,23 (2,33 - 2,83)
SEER [2]			9,5 A+++	9,6 A+++	8,6 A+++	8,6 A+++	6,5 A++
Pdesign		kW	2,50	3,50	4,20	5,00	7,10
Input power	Nominal (Min - Max)	kW	0,51 (0,18 - 0,88)	0,85 (0,18 - 1,14)	1,10 (0,18 - 1,54)	1,36 (0,25 - 1,90)	2,20 (0,42 - 3,00)
Annual energy consumption [3]		kWh/a	92	128	171	203	382
Heating capacity	Nominal (Min - Max)	kW	3,40 (0,85 - 5,00)	4,00 (0,85 - 5,80)	5,30 (0,85 - 6,80)	5,80 (0,98 - 8,00)	8,20 (0,98 - 10,20)
Heating capacity at -7 °C		kW	3,05	3,40	4,11	4,80	6,31
COP [1]	Nominal (Min - Max)	W/W	4,86 (4,72 - 3,97)	4,44 (4,72 - 3,87)	3,93 (4,72 - 3,66)	4,08 (4,26 - 3,35)	3,71 (2,45 - 3,29)
SCOP [2]			4,6 A++	4,6 A++	4,5 A+	4,6 A++	4,1 A+
Pdesign at -10 °C		kW	2,70	3,20	3,60	4,20	5,50
Input power	Nominal (Min - Max)	kW	0,70 (0,18 - 1,26)	0,90 (0,18 - 1,50)	1,35 (0,18 - 1,86)	1,42 (0,23 - 2,39)	2,21 (0,40 - 3,10)
Annual energy consumption [3]		kWh/a	822	974	1120	1278	1878
Indoor unit			CS-Z25YKEA	CS-Z35YKEA	CS-Z42YKEA	CS-Z50YKEA	CS-Z71YKEA
Power supply		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	11,4/13,8	12,7/14,8	13,2/15,2	17,4/19,1	19,0/19,9
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
Sound power	Cool / Heat (Hi)	dB(A)	55/57	58/59	59/60	60/60	63/63
Dimension	H x W x D	mm	295 x 870 x 229	295 x 870 x 229	295 x 870 x 229	295 x 1040 x 244	295 x 1040 x 244
Net weight		kg	11	11	11	12	13
Outdoor unit			CU-Z25YKEA	CU-Z35YKEA	CU-Z42YKEA	CU-Z50YKEA	CU-Z71YKEA
Air flow	Cool / Heat	m³/min	27,6/27,6	29,8/29,8	29,8/31,0	39,8/36,9	44,7/45,8
Sound pressure [4]	Cool / Heat (Hi)	dB(A)	46/48	48/50	48/51	48/50	52/54
Sound power	Cool / Heat (Hi)	dB(A)	61/63	63/65	63/66	63/65	66/68
Dimension [5]	H x W x D	mm	542 x 780 x 289	542 x 780 x 289	542 x 780 x 289	695 x 875 x 320	695 x 875 x 320
Net weight		kg	30	30	30	40	45
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
	Gas	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)		m	15	15	15	15	20
Pre-charged pipe length		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	0,89/0,60	0,89/0,60	0,97/0,65	1,13/0,76	1,35/0,91
Operating range	Cool Min ~ Max	°C	-25~+43	-25~+43	-25~+43	-25~+43	-25~+43
	Heat Min ~ Max	°C	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24

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. * Not compatible with PACi NX outdoors and accessories. Domestic range sales conditions may apply. Check with your sales representative.

Accessories	
CZ-RCC5	CN-CNT cables x2 for server room application, control of 2 units, rotation, backup, etc.
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform

Accessories	
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm

R32 | A+++ 9,6 SEER | A++ 4,6 SCOP | INVERTER | R2 ROTARY COMPRESSOR | 21 dB(A) | AEROWINGS | -25 °C COOLING MODE | -15 °C HEATING MODE | R22 R410A / R22 / R410A RENEWAL | R32 | INTEGRATION TO S-LINK | BUILT-IN WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER: For KIT-Z35-YKEA. SCOP: For KIT-Z25-YKEA, KIT-Z35-YKEA and KIT-Z50-YKEA. SUPER QUIET: For KIT-Z25-YKEA. INTERNET CONTROL: Built-in Wi-Fi.

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 NX Series Elite wall-mounted - PK3 · 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.

nanoe X

nanoe™ X as a standard.

			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-71PK3ZH45	KIT-100PK3ZH45
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 (4,49 - 5,45)	4,24 (3,61 - 5,45)	3,86 (3,02 - 5,45)	3,50 (2,69 - 5,79)	3,21 (3,09 - 5,34)
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	Nominal (Min - Max)	kW	0,73 (0,22 - 0,89)	1,18 (0,22 - 1,55)	1,58 (0,22 - 2,35)	2,03 (0,38 - 3,35)	2,96 (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 (4,17 - 5,45)	4,15 (3,55 - 5,45)	4,19 (3,40 - 5,45)	4,00 (3,16 - 5,56)	3,88 (3,43 - 5,54)
SCOP [2]			4,9 A++	4,7 A++	4,8 A++	4,7 A++	3,9 A
Pdesign at -10 °C		kW	3,6	4,5	4,6	5,2	8,0
Input power	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)	2,45 (0,56 - 3,35)
Annual energy consumption [3]		kWh/a	1029	1341	1342	1549	2871
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 / 15,5
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-71PZH4E5	U-100PZH4E5
Power supply		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	10,3 - 9,80 - 9,40	14,60 - 14,00 - 13,40
	Heat	A	4,05 - 3,90 - ,3,70	6,40 - 6,10 - 5,85	7,75 - 7,40 - 7,10	10,10 - 9,65 - 9,25	12,00 - 11,60 - 11,10
Air flow	Cool / Heat	m³/min	34,1 / 36,4	42,0 / 42,0	42,0 / 42,0	62,0 / 66,0	76,0 / 70,0
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 980 x 370	996 x 980 x 370
Net weight		kg	42	42	43	66	84
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) [5]	3/8 (9,52)	3/8 (9,52)
	Gas	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 ~ 60	5 ~ 100
Elevation difference (in / out) [7]		m	15 / 30	15 / 30	15 / 30	15 / 30	15 / 30
Pre-charged pipe length		m	30	30	30	30	30
Additional gas amount		g/m	15	15	15	30	40
Refrigerant (R32) / CO₂ Eq.		kg / T	1,13 / 0,76	1,13 / 0,76	1,15 / 0,78	1,95 / 1,32	2,70 / 1,82
Operating range	Cool Min ~ Max	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +52	-20 [8] ~ +52
	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-RTC6WBL and 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 six directions of right, right rear, right bottom, left, left rear and left bottom, making the installation work more flexible.

CZ-RTC5B

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

New 2023

Optional:

CONEX | CONEX wired remote controller, white. CZ-RTC6W/BL/BLW

CONEX | CONEX wired remote controller, black. CZ-RTC6/BL/BLW

Infrared remote controller. CZ-RWS3

Econavi sensor. CZ-CENSC1

			Three phase	
			7,1 kW	**10,0 kW**
Kit			KIT-71PK3ZH48	KIT-100PK3ZH48
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]	Nominal (Min - Max)	W/W	3,50 (2,69 - 5,79)	3,21 (3,09 - 5,34)
SEER [2]			6,7 A++	6,3 A++
Pdesign		kW	7,1	9,5
Input power	Nominal (Min - Max)	kW	2,03 (0,38 - 3,35)	2,96 (0,58 - 3,40)
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]	Nominal (Min - Max)	W/W	4,00 (3,16 - 5,56)	3,88 (3,43 - 5,54)
SCOP [2]			4,7 A++	3,9 A
Pdesign at -10 °C		kW	5,2	8,0
Input power	Nominal (Min - Max)	kW	2,00 (0,36 - 2,85)	2,45 (0,56 - 3,35)
Annual energy consumption [3]		kWh/a	1549	2871
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-71PZH4E8	U-100PZH4E8
Power supply		V	380 - 400 - 415	380 - 400 - 415
Current	Cool	A	3,45 - 3,25 - 3,15	4,95 - 4,70 - 4,50
	Heat	A	3,40 - 3,20 - 3,10	4,10 - 3,90 - 3,70
Air flow	Cool / Heat	m³/min	62,0 / 66,0	76,0 / 70,0
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 980 x 370	996 x 980 x 370
Net weight		kg	66	82
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5 ~ 60	5 ~ 100
Elevation difference (in / out) [7]		m	15 / 30	15 / 30
Pre-charged pipe length		m	30	30
Additional gas amount		g/m	30	40
Refrigerant (R32) / CO_2 Eq.		kg / T	1,95 / 1,32	2,70 / 1,82
Operating range	Cool Min ~ Max	°C	-15 ~ +52	-20 [8] ~ +52
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12 kW, the SEER and SCOP are calculated based on values of EU/626/2011. For models above 12 kW, the $\eta_{s,c}$ / $\eta_{s,h}$ 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) Outdoor unit located lower / outdoor unit located higher. 8) Pipe length up to 30 m. * Recommended fuse for the indoor 3 A. ** Above values are in the case of nanoe™ X OFF.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3	Infrared remote controller

Accessories	
CZ-CAPWFC1	Commercial Wi-Fi Adaptor
PAW-PACR4	Interface to run up to 4 indoor unit groups 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 saving sensor

R32 | A++ 8,4 SEER | A++ 4,9 SCOP | INVERTER+ | -15 °C COOLING MODE | -20 °C HEATING MODE | nanoeX | DC FAN | R22 R410A / R22 / R410A RENEWAL | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For S-3650PK3E + 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.com.

PACi NX Series Standard wall-mounted - PK3 · 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.

+ · nanoeX

nanoe™ X as a standard.

			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]	Nominal (Min - Max)	W/W	4,14 (3,74 - 5,88)	3,52 (3,03 - 6,25)	3,67 (3,01 - 6,90)	3,16 (2,77 - 5,00)	3,47 (3,13 - 5,36)
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	Nominal (Min - Max)	kW	0,87 (0,26 - 1,07)	1,42 (0,24 - 1,85)	1,66 (0,29 - 2,36)	2,25 (0,52 - 2,78)	2,59 (0,56 - 3,10)
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]	Nominal (Min - Max)	W/W	4,62 (4,11 - 6,52)	4,20 (3,17 - 7,50)	4,39 (3,18 - 7,50)	4,23 (3,38 - 6,36)	3,93 (3,56 - 5,36)
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	Nominal (Min - Max)	kW	0,78 (0,23 - 1,12)	1,19 (0,20 - 2,02)	1,39 (0,24 - 2,20)	1,68 (0,33 - 2,40)	2,29 (0,56 - 2,95)
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 supply		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
Piping diameter	Liquid	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	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	15 / 15	15 / 30	20 / 30	15 / 30
Pre-charged pipe length		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-RTC6WBL and 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

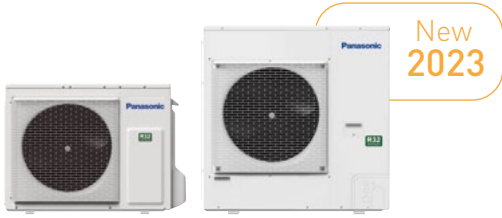These units are among the quietest in the industry, making them ideal for hotels and hospitals.

Piping outlet in six directions

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

CZ-RTC5B

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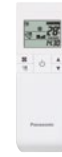
Optional:

CONEX — CONEX wired remote controller, white. CZ-RTC6W/BL/BLW

CONEX — CONEX wired remote controller, black. CZ-RTC6/BL/BLW

Infrared remote controller. CZ-RWS3

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]	Nominal (Min - Max)	W/W	3,47 (5,36 - 3,13)
SEER [2]			6,5 A++
Pdesign		kW	9,0
Input power	Nominal (Min - Max)	kW	2,59 (0,56 - 3,10)
Annual energy consumption [3]		kWh/a	485
Heating capacity	Nominal (Min - Max)	kW	9,0 (3,0 - 10,5)
COP [1]	Nominal (Min - Max)	W/W	3,93 (5,36 - 3,56)
SCOP [2]			3,9 A
Pdesign at -10 °C		kW	9,0
Input power	Nominal (Min - Max)	kW	2,29 (0,56 - 2,95)
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 supply		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
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)
Pipe length range		m	5 ~ 50
Elevation difference (in / out) [7]		m	15 / 30
Pre-charged pipe length		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

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 $\eta_{s,c}$ / $\eta_{s,h}$ 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) 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.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3	Infrared remote controller

Accessories	
CZ-CAPWFC1	Commercial Wi-Fi Adaptor
PAW-PACR4	Interface to run up to 4 indoor unit groups 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 saving sensor

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 | 5 YEARS COMPRESSOR WARRANTY

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.eu.

PACi NX Series Elite and Standard 4 way 60x60 cassette – PY3 · R32

· From 2,5 to 6,0 kW (4 capacity sizes)
· Maximum SEER: 7,3 A++ / SCOP: 4,7 A++*
· Built-in drain pump
· DC drain pump and float switch to reduce the noise
· nanoe™ X (Generator Mark 2: 9,6 trillion hydroxyl radicals/sec) as
  standard for better indoor air quality

* For Elite 3,6 KW model.

nanoe™ X as a standard.

Elite			Single phase		
			3,6 kW	**5,0 kW**	**6,0 kW**
Kit			KIT-36PY3ZH5	KIT-50PY3ZH5	KIT-60PY3ZH5
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]	Nominal (Min - Max)	W/W	4,50 (4,04 - 5,45)	3,76 (3,41 - 5,45)	3,43 (2,77 - 5,45)
SEER [2]			7,3 A++	7,0 A++	6,7 A++
Pdesign		kW	3,6	5,0	6,0
Input power	Nominal (Min - Max)	kW	0,80 (0,22 - 0,99)	1,33 (0,22 - 1,64)	1,75 (0,20 - 2,35)
Annual energy consumption [3]		kWh/a	400	685	875
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]	Nominal (Min - Max)	W/W	4,12 (3,45 - 5,45)	3,37 (2,95 - 5,45)	3,35 (3,38 - 5,45)
SCOP [2]			4,7 A++	4,6 A++	4,3 A+
Pdesign at -10 °C		kW	3,6	4,5	4,6
Input power	Nominal (Min - Max)	kW	0,97 (0,22 - 1,45)	1,66 (0,22 - 2,20)	2,09 (0,22 - 2,22)
Annual energy consumption [3]		kWh/a	1073	1370	1495
Indoor unit			S-36PY3E	S-50PY3E	S-60PY3E
Air flow	Hi / Med / Lo	m³/min	9,5 / 7,5 / 6,0	12,0 / 9,5 / 6,5	14,0 / 10,5 / 8,0
Moisture removal volume		L/h	1,5	2,5	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	243 x 575 x 575	243 x 575 x 575	243 x 575 x 575
	Panel (H x W x D)	mm	30 x 625 x 625	30 x 625 x 625	30 x 625 x 625
Net weight	Indoor / Panel	kg	15 / 2,8	15 / 2,8	15 / 2,8
nanoe X Generator			Mark 2	Mark 2	Mark 2
Outdoor unit			U-36PZH3E5	U-50PZH3E5	U-60PZH3E5
Power supply		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	A	3,95 - 3,60 - 3,60	5,30 - 5,00 - 5,75	8,20 - 7,85 - 7,60
	Heat	A	4,75 - 4,55 - 4,35	7,85 - 7,50 - 7,20	9,70 - 9,25 - 8,90
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
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) [5]
	Gas	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	15 / 30	15 / 30
Pre-charged pipe length		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

Compact and stylish design

· Required ceiling depth of only 250 mm
· Exposed area is only 30 mm

Individual flap control

Better control of the air flow with 4 motors, providing individual flap control.
Perfect air distribution without direct airflow, to reduce the feeling of cold drafts.

R32 | A++ 7,3 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 | 5 YEARS COMPRESSOR WARRANTY
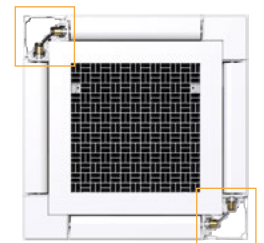
SEER and SCOP: For S-36PY3E + U-36PZH3E5. ECONAVI and INTERNET CONTROL: Optional.

Panel.
CZ-KPY4

CZ-RTC5B

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

Optional:

CONEX **CONEX wired remote controller, white.** CZ-RTC6W/BL/BLW

CONEX **CONEX wired remote controller, black.** CZ-RTC6/BL/BLW

Infrared remote controller. CZ-RWS3 + CZ-RWRY3

Econavi sensor. CZ-CENSC1

Standard			Single phase			
			2,5 kW	**3,6 kW**	**5,0 kW**	**6,0 kW**
Kit			KIT-25PY3Z5	KIT-36PY3Z5	KIT-50PY3Z5	KIT-60PY3Z5
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]	Nominal (Min - Max)	W/W	4,46 (3,55 - 5,88)	3,96 (3,57 - 5,88)	3,50 (3,03 - 6,25)	3,39 (2,77 - 6,90)
SEER [2]			6,5 A++	6,7 A++	7,3 A++	6,8 A++
Pdesign		kW	2,5	3,6	5,0	6,0
Input power	Nominal (Min - Max)	kW	0,56 (0,26 - 1,10)	0,91 (0,26 - 1,12)	1,43 (0,24 - 1,85)	1,77 (0,29 - 2,53)
Annual energy consumption [3]		kWh/a	134	188	238	3,05
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]	Nominal (Min - Max)	W/W	4,44 (3,41 - 6,52)	4,29 (3,38 - 6,52)	3,94 (2,91 - 7,50)	3,61 (2,86 - 7,60)
SCOP [2]			4,6 A++	4,3 A+	4,4 A+	4,2 A+
Pdesign at -10 °C		kW	2,8	2,8	4,0	4,6
Input power	Nominal (Min - Max)	kW	0,72 (0,23 - 1,35)	0,84 (0,23 - 1,36)	1,27 (0,20 - 2,20)	1,66 (0,24 - 2,45)
Annual energy consumption [3]		kWh/a	850	912	1264	1500
Indoor unit			S-25PY3E	S-36PY3E	S-50PY3E	S-60PY3E
Air flow	Hi / Med / Lo	m³/min	8,5/7,0/6,0	9,5/7,0/6,0	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	243 x 575 x 575	243 x 575 x 575	243 x 575 x 575	243 x 575 x 575
	Panel (H x W x D)	mm	30 x 625 x 625	30 x 625 x 625	30 x 625 x 625	30 x 625 x 625
Net weight	Indoor / Panel	kg	15/2,8	15/2,8	15/2,8	15/2,8
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit			U-25PZ3E5	U-36PZ3E5	U-50PZ3E5	U-60PZ3E5A
Power supply		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	A	2,65 - 2,55 - 2,45	4,20 - 4,05 - 3,85	6,65 - 6,35 - 6,10	8,20 - 7,85 - 7,55
	Heat	A	3,40 - 3,25 - 3,10	3,95 - 3,75 - 3,60	5,695 - 5,70 - 5,45	7,70 - 7,35 - 7,05
Air flow	Cool / Heat	m³/min	33,6/34,0	32,6/34,0	32,7/31,9	42,6/41,5
Sound pressure	Cool / Heat (Hi)	dB(A)	46/47	46/47	46/48	47/48
Sound power	Cool / Heat (Hi)	dB(A)	64/66	64/66	64/64	64/65
Dimension	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
Net weight		kg	32	32	35	46
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) [5]
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) [6]
Pipe length range		m	3 ~ 15	3 ~ 15	3 ~ 20	3 ~ 40
Elevation difference (in / out) [7]		m	15/15	15/15	15/15	15/30
Pre-charged pipe length		m	7,5	7,5	7,5	30
Additional gas amount		g/m	10	10	15	15
Refrigerant (R32) / CO_2 Eq.		kg / T	0,87 / 0,59	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

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 $\eta_{s,c}$ / $\eta_{s,h}$ 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) 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.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRY3	Infrared remote controller and receiver

Accessories	
CZ-CAPWFC1	Commercial Wi-Fi Adaptor
PAW-PACR4	Interface to run up to 4 indoor unit groups 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 saving sensor

R32   A++ 7,3 SEER   A++ 4,6 SCOP   28% ECONAVI   INVERTER+   -10 °C COOLING MODE   -15 °C HEATING MODE   nanoeX   DC FAN   R22 R410A / R22 / R410A R32 RENEWAL   OPTIONAL WI-FI   BMS CONNECTIVITY   5 YEARS COMPRESSOR WARRANTY

SEER: For S-50PY3E + U-50PZ3E5. 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.com.

PACi NX Series Elite 4 way 90x90 cassette - PU3 · R32

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.

nanoe™ X as a standard.

			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-71PU3ZH45	KIT-100PU3ZH45	KIT-125PU3ZH45	KIT-140PU3ZH45
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)	9,5 (3,1 - 12,5)	12,5 (3,2 - 14,0)	13,4 (3,3 - 16,0)
EER [1]	Nominal (Min - Max)	W/W	5,45 (4,60 - 5,45)	4,31 (3,86 - 5,45)	4,05 (3,02 - 5,45)	4,06 (2,69 - 5,79)	4,42 (3,42 - 5,34)	3,80 (3,08 - 5,33)	3,60 (2,74 - 5,32)
SEER / $\eta_{s,c}$ [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	9,5	12,5	13,4
Input power	Nominal (Min - Max)	kW	0,66 (0,22 - 0,87)	1,16 (0,22 - 1,45)	1,48 (0,22 - 2,35)	1,75 (0,38 - 3,35)	2,15 (0,58 - 3,65)	3,29 (0,60 - 4,55)	3,72 (0,62 - 5,85)
Annual energy consumption [3]		kWh/a	142	203	263	323	426	—	—
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]	Nominal (Min - Max)	W/W	5,41 (4,55 - 5,45)	4,24 (4,19 - 5,45)	4,02 (3,40 - 5,45)	4,30 (3,16 - 5,56)	5,00 (3,64 - 5,54)	4,61 (3,37 - 5,52)	4,30 (3,27 - 5,50)
SCOP / $\eta_{s,h}$ [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	Nominal (Min - Max)	kW	0,74 (0,22 - 1,10)	1,32 (0,22 - 1,55)	1,74 (0,22 - 2,35)	1,86 (0,36 - 2,85)	2,24 (0,56 - 3,85)	3,04 (0,58 - 4,75)	3,72 (0,60 - 5,50)
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	1,9	4,8	4,9
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-71PZH4E5	U-100PZH4E5	U-125PZH4E5	U-140PZH4E5
Power supply		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	8,85 - 8,45 - 8,10	10,06 - 10,02 - 9,75	16,10 - 15,40 - 14,70	18,20 - 17,40 - 16,70
	Heat	A	3,60 - 3,45 - 3,30	6,25 - 6,00 - 5,75	8,05 - 7,70 - 7,40	9,40 - 9,00 - 8,60	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	62,0 / 66,0	76,0 / 70,0	86,0 / 78,0	89,0 / 83,0
Sound pressure	Cool / Heat (Hi)	dB(A)	43 / 44	46 / 48	47 / 50	48 / 50	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB(A)	62 / 64	64 / 67	65 / 69	65 / 67	69 / 69	73 / 73	74 / 74
Dimension	H x W x D	mm	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	42	42	43	66	84	86	86
Piping diameter	Liquid	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	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 ~ 60	5 ~ 100	5 ~ 100	5 ~ 100
Elevation difference (in / out) [7]		m	15 / 30	15 / 30	15 / 30	15 / 30	15 / 30	15 / 30	15 / 30
Pre-charged pipe length		m	30	30	30	30	30	30	30
Additional gas amount		g/m	15	15	15	30	40	40	40
Refrigerant (R32) / CO_2 Eq.		kg / T	1,13 / 0,76	1,13 / 0,76	1,15 / 0,78	1,95 / 1,32	2,70 / 1,82	3,00 / 2,03	3,00 / 2,03
Operating range	Cool Min ~ Max	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +52	-20 [8] ~ +52	-20 [8] ~ +52	-20 [8] ~ +52
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24

Technical focus

· High performance turbo fan
· 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 plus dry operation

· Lower noise in low fan operation
· Light weight, easy piping and integrated drain pump for quick installation
· Wired remote control CZ-RTC6WBL and 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

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

CZ-RTC5B

New 2023

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

Optional:

CONEX wired remote controller, white. CZ-RTC6W/BL/BLW

CONEX wired remote controller, black. CZ-RTC6/BL/BLW

Infrared remote controller. CZ-RWS3 + CZ-RWRU3W

			Three phase			
			7,1 kW	**10,0 kW**	**12,5 kW**	**14,0 kW**
Kit			KIT-71PU3ZH48	KIT-100PU3ZH48	KIT-125PU3ZH48	KIT-140PU3ZH48
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	7,1 (2,2 - 9,0)	9,5 (3,1 - 12,5)	12,5 (3,2 - 14,0)	13,4 (3,3 - 16,0)
EER [1]	Nominal (Min - Max)	W/W	4,06 (2,69 - 5,79)	4,42 (3,42 - 5,34)	3,80 (3,08 - 5,33)	3,60 (2,74 - 5,32)
SEER / $\eta_{s,c}$ [2]			7,7 A++	7,2 A++	303,0%	286,6%
Pdesign		kW	7,1	9,5	12,5	13,4
Input power	Nominal (Min - Max)	kW	1,75 (0,38 - 3,35)	2,15 (0,58 - 3,65)	3,29 (0,60 - 4,55)	3,72 (0,62 - 5,85)
Annual energy consumption [3]		kWh/a	323	426	—	—
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]	Nominal (Min - Max)	W/W	4,30 (3,16 - 5,56)	5,00 (3,64 - 5,54)	4,61 (3,37 - 5,52)	4,30 (3,27 - 5,50)
SCOP / $\eta_{s,h}$ [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	Nominal (Min - Max)	kW	1,86 (0,36 - 2,85)	2,24 (0,56 - 3,85)	3,04 (0,58 - 4,75)	3,72 (0,60 - 5,50)
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	1,9	4,8	4,9
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-71PZH4E8	U-100PZH4E8	U-125PZH4E8	U-140PZH4E8
Power supply		V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Current	Cool	A	2,95 - 2,80 - 2,70	3,60 - 3,40 - 3,25	5,45 - 5,15 - 5,00	6,15 - 5,85 - 5,65
	Heat	A	3,15 - 3,00 - 2,90	3,75 - 3,55 - 3,40	5,10 - 4,80 - 4,65	6,20 - 5,90 - 5,65
Air flow	Cool / Heat	m³/min	62,0/66,0	76,0/70,0	86,0/78,0	89,0/83,0
Sound pressure	Cool / Heat (Hi)	dB(A)	48/50	52/52	55/55	56/56
Sound power	Cool / Heat (Hi)	dB(A)	65/67	69/69	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	996 x 980 x 370
Net weight		kg	66	82	84	84
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5 ~ 60	5 ~ 100	5 ~ 100	5 ~ 100
Elevation difference (in / out) [7]		m	15/30	15/30	15/30	15/30
Pre-charged pipe length		m	30	30	30	30
Additional gas amount		g/m	30	40	40	40
Refrigerant (R32) / CO_2 Eq.		kg / T	1,95 / 1,32	2,70 / 1,82	3,00 / 2,03	3,00 / 2,03
Operating range	Cool Min ~ Max	°C	-15 ~ +52	-20 [8] ~ +52	-20 [8] ~ +52	-20 [8] ~ +52
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24

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 $\eta_{s,c}$ / $\eta_{s,h}$ 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) Outdoor unit located lower / outdoor unit located higher. 8) Pipe length up to 30 m. * Recommended fuse for the indoor 3 A. ** Above values are in the case of nanoe™ X OFF.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRU3W	Infrared remote controller and receiver

Accessories	
CZ-CAPWFC1	Commercial Wi-Fi Adaptor
CZ-KPU3AW	Econavi exclusive panel
PAW-PACR4	Interface to run up to 4 indoor unit groups 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

R32 | A+++ 8,9 SEER | A+++ 5,1 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 | 5 YEARS COMPRESSOR WARRANTY

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.

PACi NX Series Standard 4 way 90x90 cassette - PU3 · R32

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.

nanoe X

nanoe™ X as a standard.

			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 (5,88-3,81)	3,91 (6,25-3,20)	3,73 (6,90-3,01)	3,27 (5,00-2,77)	3,82 (2,88 - 5,36)	3,58 (2,81 - 5,33)	3,23 (2,73 - 5,32)
SEER / $\eta_{s,c}$ [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	Nominal (Min - Max)	kW	0,83 (0,25-1,05)	1,28 (0,24-1,75)	1,61 (0,29-2,36)	2,17 (0,52-2,78)	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 (4,32 - 6,52)	4,63 (3,48 - 7,50)	4,48 (3,18 - 7,50)	4,23 (3,38 - 6,36)	4,93 (3,59 - 5,36)	4,43 (3,57 - 5,50)	4,18 (3,33 - 5,48)
SCOP / $\eta_{s,h}$ [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	Nominal (Min - Max)	kW	0,71 (0,23-1,06)	1,08 (0,20-1,84)	1,34 (0,24-2,20)	1,68 (0,33-2,40)	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 supply		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
Piping diameter	Liquid	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	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	15/15	15/30	20/30	15/30	15/30	15/30
Pre-charged pipe length		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
· 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 plus dry operation

· Lower noise in low fan operation
· Light weight, easy piping and integrated drain pump for quick installation
· Wired remote control CZ-RTC6WBL and 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

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

CZ-RTC5B

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

Optional:

CONEX wired remote controller, white.
CZ-RTC6W/BL/BLW

CONEX wired remote controller, black.
CZ-RTC6/BL/BLW

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 (2,88 - 5,36)	3,58 (2,81 - 5,33)	3,23 (2,73 - 5,32)
SEER / $\eta_{s,c}$ [2]			**6,7 A++**	**265,8%**	**256,2%**
Pdesign		kW	10,0	12,5	14,0
Input power	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 (3,59 - 5,36)	4,43 (3,57 - 5,50)	4,18 (3,33 - 5,48)
SCOP / $\eta_{s,h}$ [2]			**4,4 A+**	**157,0%**	**152,2%**
Pdesign at -10 °C		kW	10,0	12,5	14,0 (at -7 °C)
Input power	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 supply		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
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	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	15 / 30	15 / 30
Pre-charged pipe length		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

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 $\eta_{s,c}$ / $\eta_{s,h}$ 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) 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.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRU3W	Infrared remote controller and receiver

Accessories	
CZ-CAPWFC1	Commercial Wi-Fi Adaptor
CZ-KPU3AW	Econavi exclusive panel
PAW-PACR4	Interface to run up to 4 indoor unit groups 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

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 / R22 / R410A RENEWAL | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

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.

PACi NX Series Elite ceiling - PT3 · R32

Ceiling mounted units provide large and wide air distribution which is ideal for large rooms.

The height and depth of all capacities are the same for unified appearance in mixed installations.

nanoeX

nanoe™ X as a standard.

			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-71PT3ZH45	KIT-100PT3ZH45	KIT-125PT3ZH45	KIT-140PT3ZH45
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]	Nominal (Min - Max)	W/W	4,86 (4,55 - 5,45)	4,03 (3,57 - 5,45)	3,82 (3,02 - 5,45)	3,91 (2,69 - 5,79)	4,06 (3,29 - 5,34)	3,46 (3,01 - 5,33)	3,21 (2,67 - 5,32)
SEER / $\eta_{s,c}$ [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	Nominal (Min - Max)	kW	0,72 (0,22 - 0,88)	1,24 (0,22 - 1,57)	1,57 (0,22 - 2,35)	1,74 (0,38 - 3,35)	2,34 (0,58 - 3,80)	3,50 (0,60 - 4,65)	4,17 (0,62 - 6,00)
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]	Nominal (Min - Max)	W/W	5,00 (4,17 - 5,45)	4,03 (3,94 - 5,45)	4,14 (3,40 - 5,45)	3,96 (3,16 - 5,56)	4,00 (3,54 - 5,54)	3,78 (3,20 - 5,52)	3,38 (3,10 - 5,50)
SCOP / $\eta_{s,h}$ [2]			4,9 A++	4,8 A++	4,8 A++	4,7 A++	4,5 A+	175,6%	169,3%
Pdesign at -10 °C		kW	3,1	4,0	4,6	4,7	7,8	9,5	10,2
Input power	Nominal (Min - Max)	kW	0,80 (0,22 - 1,20)	1,39 (0,22 - 1,65)	1,69 (0,22 - 2,35)	2,02 (0,36 - 2,85)	2,80 (0,56 - 3,95)	3,70 (0,58 - 5,00)	4,74 (0,60 - 5,80)
Annual energy consumption [3]		kWh/a	886	1167	1342	1400	2426	—	—
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-71PZH4E5	U-100PZH4E5	U-125PZH4E5	U-140PZH4E5
Power supply		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	8,80 - 8,40 - 8,05	11,60 - 11,10 - 10,60	17,10 - 16,40 - 15,70	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	10,20 - 9,75 - 9,35	13,70 - 13,20 - 12,70	18,10 - 17,30 - 16,60	23,20 - 22,20 - 21,20
Air flow	Cool / Heat	m³/min	34,1 / 36,4	42,0 / 42,0	42,0 / 42,0	62,0 / 66,0	76,0 / 70,0	86,0 / 78,0	89,0 / 83,0
Sound pressure	Cool / Heat (Hi)	dB(A)	43 / 44	46 / 48	47 / 50	48 / 50	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB(A)	62 / 64	64 / 67	65 / 69	65 / 67	69 / 69	73 / 73	74 / 74
Dimension	H x W x D	mm	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	42	42	43	66	84	86	86
Piping diameter	Liquid	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	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 ~ 60	5 ~ 100	5 ~ 100	5 ~ 100
Elevation difference (in / out) [7]		m	15 / 30	15 / 30	15 / 30	15 / 30	15 / 30	15 / 30	15 / 30
Pre-charged pipe length		m	30	30	30	30	30	30	30
Additional gas amount		g/m	15	15	15	30	40	40	40
Refrigerant (R32) / CO_2 Eq.		kg / T	1,13 / 0,76	1,13 / 0,76	1,15 / 0,78	1,95 / 1,32	2,70 / 1,82	3,00 / 2,03	3,00 / 2,03
Operating range	Cool Min ~ Max	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +52	-20 [8] ~ +52	-20 [8] ~ +52	-20 [8] ~ +52
	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-RTC6WBL and 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 air flow 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 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, increasing the degree of comfort.

CZ-RTC5B

New 2023

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

Optional:

CONEX wired remote controller, white. CZ-RTC6W/BL/BLW

CONEX wired remote controller, black. CZ-RTC6/BL/BLW

Infrared remote controller. CZ-RWS3 + CZ-RWRT3

Econavi sensor. CZ-CENSC1

			Three phase			
			7,1 kW	**10,0 kW**	**12,5 kW**	**14,0 kW**
Kit			KIT-71PT3ZH48	KIT-100PT3ZH48	KIT-125PT3ZH48	KIT-140PT3ZH48
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]	Nominal (Min - Max)	W/W	3,91 (2,69 - 5,79)	4,06 (3,29 - 5,34)	3,46 (3,01 - 5,33)	3,21 (2,67 - 5,32)
SEER / $\eta_{s,c}$ [2]			7,2 A++	7,2 A++	277,3%	262,4%
Pdesign		kW	6,8	9,5	12,1	13,4
Input power	Nominal (Min - Max)	kW	1,74 (0,38 - 3,35)	2,34 (0,58 - 3,80)	3,50 (0,60 - 4,65)	4,17 (0,66 - 6,00)
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]	Nominal (Min - Max)	W/W	3,96 (3,16 - 5,56)	4,00 (3,54 - 5,54)	3,78 (3,20 - 5,52)	3,38 (3,10 - 5,50)
SCOP / $\eta_{s,h}$ [2]			4,7 A++	4,5 A+	175,6%	169,3%
Pdesign at -10 °C		kW	4,7	7,8	9,5	10,2
Input power	Nominal (Min - Max)	kW	2,02 (0,36 - 2,85)	2,80 (0,56 - 3,95)	3,70 (0,58 - 5,00)	4,74 (0,60 - 5,80)
Annual energy consumption [3]		kWh/a	1400	2427	—	—
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-71PZH4E8	U-100PZH4E8	U-125PZH4E8	U-140PZH4E8
Power supply		V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Current	Cool	A	2,95 - 2,80 - 2,70	3,60 - 3,40 - 3,25	5,45 - 5,15 - 5,00	6,15 - 5,85 - 5,65
	Heat	A	3,15 - 3,00 - 2,90	3,75 - 3,55 - 3,40	5,10 - 4,80 - 4,65	6,20 - 5,90 - 5,65
Air flow	Cool / Heat	m³/min	62,0 / 66,0	76,0 / 70,0	86,0 / 78,0	89,0 / 83,0
Sound pressure	Cool / Heat (Hi)	dB(A)	48 / 50	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB(A)	65 / 67	69 / 69	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	996 x 980 x 370
Net weight		kg	66	82	84	84
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5 ~ 60	5 ~ 100	5 ~ 100	5 ~ 100
Elevation difference (in / out) [7]		m	15 / 30	15 / 30	15 / 30	15 / 30
Pre-charged pipe length		m	30	30	30	30
Additional gas amount		g/m	30	40	40	40
Refrigerant (R32) / CO$_2$ Eq.		kg / T	1,95 / 1,32	2,70 / 1,82	3,00 / 2,03	3,00 / 2,03
Operating range	Cool Min ~ Max	°C	-15 ~ +52	-20 [8] ~ +52	-20 [8] ~ +52	-20 [8] ~ +52
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24

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 $\eta_{s,c}$ / $\eta_{s,h}$ 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) Outdoor unit located lower / outdoor unit located higher. 8) Pipe length up to 30 m. * Recommended fuse for the indoor 3 A. ** Above values are in the case of nanoe™ X OFF.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRT3	Infrared remote controller

Accessories	
CZ-CAPWFC1	Commercial Wi-Fi Adaptor
PAW-PACR4	Interface to run up to 4 indoor unit groups 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 saving sensor

R32

A++ 7,7 SEER

A++ 4,9 SCOP

INVERTER+

-15 °C COOLING MODE

-20 °C HEATING MODE

nanoeX

R32 R410A R22 / R410A RENEWAL

OPTIONAL WI-FI

BMS CONNECTIVITY

5 YEARS COMPRESSOR WARRANTY

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.com.

PACi NX Series Standard ceiling - PT3 · R32

Ceiling mounted units provide large and wide air distribution which is ideal for large rooms.

The height and depth of all capacities are the same for unified appearance in mixed installations.

nanoe™ X as a standard.

			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]	Nominal (Min - Max)	W/W	4,14 (3,69 - 5,17)	3,03 (2,86 - 5,00)	3,59 (2,90 - 6,90)	3,24 (2,75 - 4,91)	3,64 (2,80 - 5,36)	3,32 (2,77 - 5,33)	2,98 (2,73 - 5,32)
SEER / $\eta_{s,c}$ [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	Nominal (Min - Max)	kW	0,85 (0,29 - 1,10)	1,65 (0,30 - 1,82)	1,67 (0,29 - 2,45)	2,10 (0,53 - 2,80)	2,75 (0,56 - 4,10)	3,76 (0,60 - 4,88)	4,70 (0,62 - 5,50)
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]	Nominal (Min - Max)	W/W	4,61 (3,51 - 5,70)	3,73 (3,12 - 6,25)	4,11 (2,92 - 6,67)	4,20 (3,06 - 5,68)	4,24 (3,30 - 5,36)	3,89 (3,41 - 4,52)	3,70 (3,08 - 5,48)
SCOP / $\eta_{s,h}$ [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	Nominal (Min - Max)	kW	0,76 (0,26 - 1,31)	1,34 (0,24 - 2,05)	1,46 (0,27 - 2,40)	1,62 (0,37 - 2,65)	2,36 (0,56 - 4,00)	3,21 (0,73 - 4,40)	3,78 (0,62 - 5,20)
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 supply		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
Piping diameter	Liquid	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	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	15 / 15	15 / 30	20 / 30	15 / 30	15 / 30	15 / 30
Pre-charged pipe length		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-RTC6WBL and 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 air flow 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 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, increasing the degree of comfort.

CZ-RTC5B

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

Optional:

CONEX
CONEX wired remote controller, white. CZ-RTC6W/BL/BLW

CONEX
CONEX wired remote controller, black. CZ-RTC6/BL/BLW

Infrared remote controller. CZ-RWS3 + CZ-RWRT3

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]	Nominal (Min - Max)	W/W	3,64 (3,50 - 5,36)	3,32 (2,77 - 5,33)	2,98 (2,73 - 5,32)
SEER / $\eta_{s,c}$ [2]			6,5 A++	241,7%	228,8%
Pdesign		kW	10,0	12,5	14,0
Input power	Nominal (Min - Max)	kW	2,75 (0,56 - 4,10)	3,76 (0,60 - 4,88)	4,70 (0,62 - 5,50)
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]	Nominal (Min - Max)	W/W	4,24 (3,50 - 5,36)	3,89 (3,41 - 4,52)	3,70 (3,08 - 5,48)
SCOP / $\eta_{s,h}$ [2]			4,2 A+	147,4%	145,3%
Pdesign at -10 °C		kW	10,0	12,5	13,6
Input power	Nominal (Min - Max)	kW	2,36 (0,56 - 4,00)	3,21 (0,73 - 4,40)	3,78 (0,62 - 5,20)
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 supply		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
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	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	15 / 30	15 / 30
Pre-charged pipe length		m	30	30	30
Additional gas amount		g/m	45	45	45
Refrigerant (R32) / CO_2 Eq.		kg / T	2,40 / 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) 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 $\eta_{s,c}$ / $\eta_{s,h}$ 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) 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.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRT3	Infrared remote controller

Accessories	
CZ-CAPWFC1	Commercial Wi-Fi Adaptor
PAW-PACR4	Interface to run up to 4 indoor unit groups 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 saving sensor

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

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.eu.

PACi NX Series Elite adaptive ducted unit - PF3 · R32

Adaptive ducted unit - PF3.
2 installation possibilities (horizontal / vertical) with high ESP 150Pa allows flexible installation.

nanoeX

nanoe™ X as a standard.

			3,6 kW	5,0 kW	6,0 kW	7,1 kW	10,0 kW	12,5 kW	14,0 kW
						Single phase			
Kit			KIT-36PF3ZH5	KIT-50PF3ZH5	KIT-60PF3ZH5	KIT-71PF3ZH45	KIT-100PF3ZH45	KIT-125PF3ZH45	KIT-140PF3ZH45
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]	Nominal (Min - Max)	W/W	4,24 (3,57 - 5,45)	3,42 (3,11 - 5,45)	3,68 (3,15 - 5,45)	3,74 (2,41 - 5,64)	4,09 (2,82 - 5,08)	3,53 (3,00 - 5,00)	3,38 (2,59 - 4,18)
SEER / $\eta_{s,c}$ [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	Nominal (Min - Max)	kW	0,85 (0,22 - 1,12)	1,46 (0,22 - 1,80)	1,55 (0,22 - 2,00)	1,82 (0,39 - 3,24)	3,23 (0,61 - 4,04)	3,43 (0,64 - 4,54)	3,96 (0,79 - 5,90)
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]	Nominal (Min - Max)	W/W	4,17 (3,23 - 5,45)	3,61 (2,97 - 5,45)	3,74 (3,33 - 5,45)	4,03 (3,16 - 5,41)	3,88 (3,07 - 5,25)	3,46 (3,06 - 5,16)	3,33 (3,14 - 4,29)
SCOP / $\eta_{s,h}$ [2]			4,5 A+	4,2 A+	4,4 A+	4,7 A++	4,3 A+	165,0%	162,6%
Pdesign at -10 °C		kW	3,6	4,0	4,7	4,7	7,8	9,3	9,5
Input power	Nominal (Min - Max)	kW	0,96 (0,22 - 1,55)	1,55 (0,22 - 2,19)	1,87 (0,22 - 2,40)	1,86 (0,37 - 2,85)	2,78 (0,59 - 4,40)	3,90 (0,62 - 5,04)	4,65 (0,77 - 5,55)
Annual energy consumption [3]		kWh/a	1120	1333	1495	1393	2540	—	—
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	20,0/26,0/21,0	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-71PZH4E5	U-100PZH4E5	U-125PZH4E5	U-140PZH4E5
Power supply		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	9,20 - 8,80 - 8,45	11,50-11,00-10,50	16,80-16,00-15,40	19,40-18,50-17,70
	Heat	A	4,70 - 4,50 - 4,30	7,35 - 7,00 - 6,75	8,65 - 8,30 - 7,95	9,40 - 9,00 - 8,60	13,60-13,10-12,60	19,10-18,20-17,50	22,70-21,70-20,80
Air flow	Cool / Heat	m³/min	34,1 / 36,4	42,0 / 42,0	42,0 / 42,0	62,0 / 66,0	76,0 / 70,0	86,0 / 78,0	89,0 / 83,0
Sound pressure	Cool / Heat (Hi)	dB(A)	43/44	46/48	47/50	48/50	52/52	55/55	56/56
Sound power	Cool / Heat (Hi)	dB(A)	62/64	64/67	65/69	65/67	69/69	73/73	74/74
Dimension	H x W x D	mm	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	42	42	43	66	84	86	86
Piping diameter	Liquid	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	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 ~ 60	5 ~ 100	5 ~ 100	5 ~ 100
Elevation difference (in / out) [8]		m	15/30	15/30	15/30	15/30	15/30	15/30	15/30
Pre-charged pipe length		m	30	30	30	30	30	30	30
Additional gas amount		g/m	15	15	15	30	40	40	40
Refrigerant (R32) / CO_2 Eq.		kg / T	1,13/0,76	1,13/0,76	1,15/0,78	1,95/1,32	2,70/1,82	3,00/2,03	3,00/2,03
Operating range	Cool Min ~ Max	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +52	-20 [9] ~ +52	-20 [9] ~ +52	-20 [9] ~ +52
	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-RTC6WBL and 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.
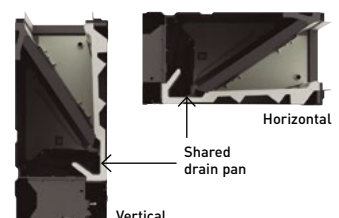
2 installation possibilities (horizontal / vertical)

Vertical installation is available.
ESP 150Pa, sufficient for remotely installing units away from the rooms.
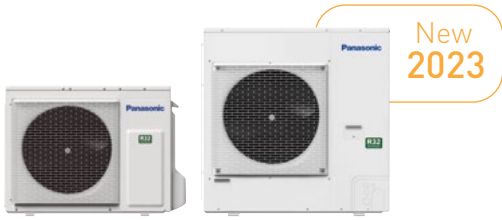
Improved drain pan design

Drain pan is shared in both cases horizontal and vertical installation.
No need to modify the unit.

Horizontal

Shared drain pan

Vertical

CZ-RTC5B

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

New 2023

Optional:

CONEX
CONEX wired remote controller, white. CZ-RTC6W/BL/BLW

CONEX
CONEX wired remote controller, black. CZ-RTC6/BL/BLW

Infrared remote controller. CZ-RWS3 + CZ-RWRC3

Econavi sensor. CZ-CENSC1

			Three phase			
			7,1 kW	10,0 kW	12,5 kW	14,0 kW
Kit			KIT-71PF3ZH48	KIT-100PF3ZH48	KIT-125PF3ZH48	KIT-140PF3ZH48
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]	Nominal (Min - Max)	W/W	3,74 (2,41 - 5,64)	4,09 (2,82 - 5,08)	3,53 (3,00 - 5,00)	3,38 (2,59 - 4,18)
SEER / $\eta_{s,c}$ [2]			7,1 A++	7,4 A++	281,0%	275,2%
Pdesign		kW	6,8	9,5	12,1	13,4
Input power	Nominal (Min - Max)	kW	1,82 (0,39 - 3,24)	2,32 (0,61 - 4,04)	3,43 (0,64 - 4,54)	3,96 (0,79 - 5,90)
Annual energy consumption [3]		kWh/a	332	447	—	—
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]	Nominal (Min - Max)	W/W	4,03 (3,16 - 5,41)	3,88 (3,07 - 5,25)	3,46 (3,06 - 5,16)	3,33 (3,14 - 4,29)
SCOP / $\eta_{s,h}$ [2]			4,7 A++	4,3 A+	165,0%	162,6%
Pdesign at -10 °C		kW	4,7	7,8	9,3	9,5
Input power	Nominal (Min - Max)	kW	1,86 (0,37 - 2,85)	2,78 (0,59 - 4,40)	3,90 (0,62 - 5,04)	4,65 (0,77 - 5,55)
Annual energy consumption [3]		kWh/a	1394	2540	—	—
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-71PZH4E8	U-100PZH4E8	U-125PZH4E8	U-140PZH4E8
Power supply		V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Current	Cool	A	3,05 - 2,90 - 2,80	3,85 - 3,70 - 3,50	5,65 - 5,40 - 5,20	6,55 - 6,20 - 6,00
	Heat	A	3,15 - 3,00 - 2,90	4,65 - 4,40 - 4,20	6,50 - 6,20 - 5,95	7,75 - 7,40 - 7,05
Air flow	Cool / Heat	m³/min	62,0/66,0	76,0/70,0	86,0/78,0	89,0/83,0
Sound pressure	Cool / Heat (Hi)	dB(A)	48/50	52/52	55/55	56/56
Sound power	Cool / Heat (Hi)	dB(A)	65/67	69/69	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	996 x 980 x 370
Net weight		kg	66	82	84	84
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5 ~ 60	5 ~ 100	5 ~ 100	5 ~ 100
Elevation difference (in / out) [8]		m	15/30	15/30	15/30	15/30
Pre-charged pipe length		m	30	30	30	30
Additional gas amount		g/m	30	40	40	40
Refrigerant (R32) / CO_2 Eq.		kg / T	1,95 / 1,32	2,70 / 1,82	3,00 / 2,03	3,00 / 2,03
Operating range	Cool Min ~ Max	°C	-15 ~ +52	-20 [9] ~ +52	-20 [9] ~ +52	-20 [9] ~ +52
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24

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 $\eta_{s,c}$ / $\eta_{s,h}$ 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) Outdoor unit located lower / outdoor unit located higher. 9) Pipe length up to 30 m. * 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.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
CZ-CAPWFC1	Commercial Wi-Fi Adaptor

Accessories	
PAW-PACR4	Interface to run up to 4 indoor unit groups 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 saving 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

R32

A++ 7,1 SEER

A++ 4,7 SCOP

INVERTER+

-15 °C COOLING MODE

-20 °C HEATING MODE

nanoeX

22 dB(A)

DC FAN

FILTER INCLUDED

R22 R410A / R32 R22 / R410A RENEWAL

OPTIONAL WI-FI

BMS CONNECTIVITY

5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For S-6071PF3E + U-71PZH4E5. SUPER QUIET: For S-3650PF3E + 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.com.

PACi NX Series Standard adaptive ducted unit - PF3 · R32

Adaptive ducted unit - PF3.
2 installation possibilities (horizontal / vertical) with high ESP 150Pa allows flexible installation.

nanoe X

nanoe™ X as a standard.

			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 (3,51 - 5,00)	2,78 (2,76 - 4,63)	3,54 (2,63 - 5,88)	3,18 (2,69 - 4,56)	3,57 (2,36 - 5,08)	3,40 (2,76 - 5,08)	3,16 (2,56 - 5,08)
SEER / $\eta_{s,c}$ [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	Nominal (Min - Max)	kW	0,90 (0,30 - 1,14)	1,80 (0,32 - 1,92)	1,61 (0,34 - 2,40)	2,14 (0,57 - 2,86)	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 (3,51 - 5,36)	3,62 (3,06 - 5,36)	4,04 (2,82 - 6,21)	4,00 (3,03 - 5,68)	4,09 (3,00 - 5,08)	3,56 (3,16 - 5,24)	3,76 (3,03 - 5,23)
SCOP / $\eta_{s,h}$ [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	Nominal (Min - Max)	kW	0,82 (0,28 - 1,31)	1,38 (0,28 - 1,73)	1,41 (0,29 - 2,48)	1,70 (0,37 - 2,67)	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 supply		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
Piping diameter	Liquid	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	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	15 / 15	15 / 30	20 / 30	15 / 30	15 / 30	15 / 30
Pre-charged pipe length		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

· 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-RTC6WBL and 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.
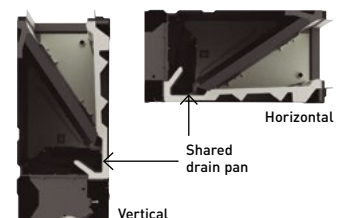
2 installation possibilities (horizontal / vertical)

Vertical installation is 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 modify the unit.

Horizontal

Shared drain pan

Vertical

CZ-RTC5B

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

Optional:

CONEX wired remote controller, white. CZ-RTC6W/BL/BLW

CONEX wired remote controller, black. CZ-RTC6/BL/BLW

Infrared remote controller. CZ-RWS3 + CZ-RWRC3

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 (2,36 - 5,08)	3,40 (2,76 - 5,08)	3,16 (2,56 - 5,08)
SEER / $\eta_{s,c}$ [2]			6,5 A++	256,2%	251,4%
Pdesign		kW	9,5	12,1	13,4
Input power	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 (3,00 - 5,08)	3,56 (3,16 - 5,24)	3,76 (3,03 - 5,23)
SCOP / $\eta_{s,h}$ [2]			3,9 A	142,6%	140,6%
Pdesign at -10 °C		kW	7,8	9,3	9,5
Input power	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 supply		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
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	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	15 / 30	15 / 30
Pre-charged pipe length		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

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 $\eta_{s,c}$ / $\eta_{s,h}$ 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) 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.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
CZ-CAPWFC1	Commercial Wi-Fi Adaptor

Accessories	
PAW-PACR4	Interface to run up to 4 indoor unit groups 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 saving 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

R32 | A++ 6,6 SEER | A+ 4,4 SCOP | INVERTER+ | -10 °C COOLING MODE | -15 °C HEATING MODE | nanoeX | 22 dB(A) | DC FAN | FILTER INCLUDED | R22 R410A / R32 R22 / R410A RENEWAL | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

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.

Panasonic Big PACi, not only environmentally friendly but also a groundbreaking product.

Big PACi with R32 has been introduced with full renewal of its indoor unit, also offering hydronic application by PACi Water heat exchanger.

1 Compact and light indoor body

Compact and light indoor body, keeping the high efficiency, has a split-able design for easy installation within a limited narrow space. Plus ease of maintenance due to the simplified disassembly design.
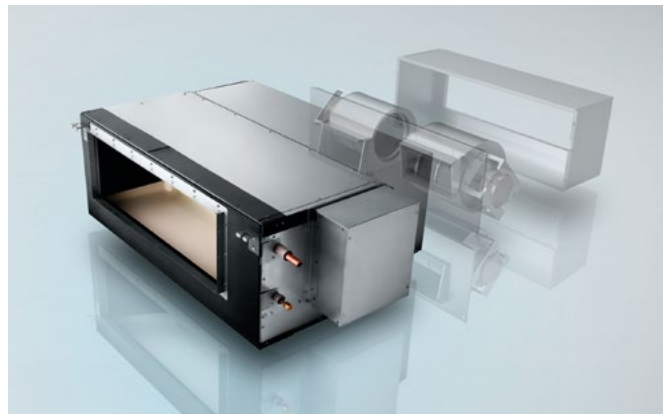
2 Easy pipe work with split-able hide-away indoor design

Heat exchanger and fan elements (fan + casing) can be separated during installation. The hide-away indoor unit is easily reassembled and will fit through a narrow space.

3 High external static pressure, maximum 200 Pa* setting

A high static pressure enables the use of long ducts for installation in a wide range of spaces.

* S-250PE3E5B.

4 Panasonic Comfort Cloud App control

Smartphone ready to control of PACi systems with Panasonic Comfort Cloud App*.

* Panasonic Wi-Fi Adaptor CZ-CAPWFC1 is required.

Compact and light indoor body, keeping high efficiency

15% lighter weight vs conventional model drastically improves installation work.

	Conventional model	Panasonic model
20,0 kW	100 kg	**86 kg**
25,0 kW	104 kg	**88 kg**

Depth was reduced by 230 mm

1205 mm Conventional model

976 mm
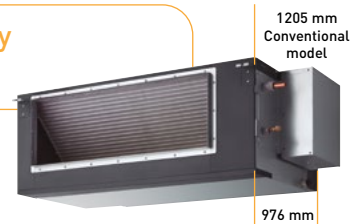
Maximum 200 Pa* static pressure setting

A high static pressure enables the use of long ducts for installation in a wide range of spaces.

3-step static pressure set up.
Selectable of static pressure modes can change 200 Pa / 130 Pa / 75 Pa for extra installation flexibility.

* In case of S-250PE3E5B.

200 Pa*   **130 Pa***   **75 Pa** Factory Setting

Easy installation with light components

Indoor unit can easily be split into 3 components, the heaviest of which weighs only 48 kg.

Heat Exchanger

Fan

Fan Casing
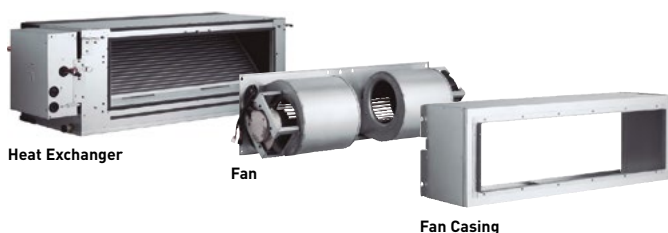
Dimensions of each component (lightweight design for easy disassembly).

48 Kg
486 mm
558 mm
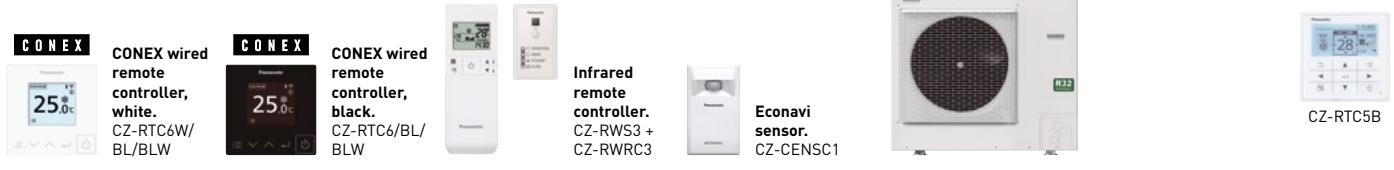
27 Kg
377 mm
427 mm

11 Kg
434 mm
360 mm

The weight is for S-200PE3E5B model.

Panasonic Big PACi high static pressure hide-away 20,0-25,0 kW · R32

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

Optional:

CONEX wired remote controller, white. CZ-RTC6W/BL/BLW

CONEX wired remote controller, black. CZ-RTC6/BL/BLW

Infrared remote controller. CZ-RWS3 + CZ-RWRC3

Econavi sensor. CZ-CENSC1

CZ-RTC5B

			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]	Nominal (Min - Max)	W/W	3,22 (3,09 - 4,52)	3,11 (2,93 - 4,59)
SEER / $\eta_{s,c}$ [2]			207,0%	190,6%
Pdesign		kW	19,5	23,2
Input power	Nominal (Min - Max)	kW	6,06 (1,26 - 6,80)	7,46 (1,33 - 9,20)
Heating capacity	Nominal (Min - Max)	kW	22,4 (5,0 - 25,0)	28,0 (5,5 - 29,0)
COP [1]	Nominal (Min - Max)	W/W	3,61 (3,16 - 4,76)	3,41 (3,05 - 5,00)
SCOP / $\eta_{s,h}$ [2]			141,3%	142,7%
Pdesign at -10 °C		kW	17,0	20,0
Input power	Nominal (Min - Max)	kW	6,21 (1,05 - 7,90)	8,21 (1,10 - 9,50)
Indoor unit			S-200PE3E5B	S-250PE3E5B
Power supply		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 / Net weight	H x W x D	mm / kg	486 x 1456 x 916 / 86	486 x 1456 x 916 / 88
Outdoor unit			U-200PZH2E8	U-250PZH2E8
Power supply		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] / Net weight	H x W x D	mm / kg	1500 x 980 x 370 / 117	1500 x 980 x 370 / 128
Piping diameter	Liquid / Gas	Inch (mm)	3/8 (9,52) / 1 (25,40)	1/2 (12,70) / 1 (25,40)
Pipe length range / Elevation difference (in / out)		m / m	5 ~ 90 / 30	5 ~ 60 / 30
Pre-charged pipe length / Additional gas amount		m / g/m	30 / 60	30 / 80
Refrigerant (R32) / CO₂ 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

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 $\eta_{s,c}$ / $\eta_{s,h}$ 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. * No filter included.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver

Accessories	
CZ-CAPDC3	Demand control for Mini ECOi and PACi outdoor units
CZ-CAPWFC1	Commercial Wi-Fi Adaptor
PAW-PACR4	Interface to run up to 4 indoor unit groups 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 saving sensor

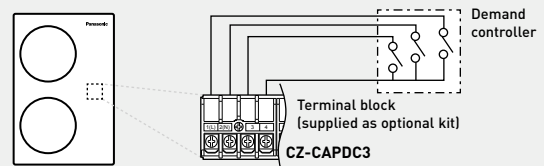## Demand response compliant as a standard function

CZ-CAPDC3. 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

R32

INVERTER+

HIGH EFFICIENCY COMPRESSOR

-15 °C COOLING MODE

-20 °C HEATING MODE

BLUEFIN

LARGE FAN

R22 R410A / R22 / R410A RENEWAL R32

OPTIONAL WI-FI

BMS CONNECTIVITY

5 YEARS COMPRESSOR WARRANTY

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.

Commercial twin, triple and double-twin systems · R32

With this system, a single outdoor unit can split its capacity simultaneously across up to 4 indoor units, for better distribution within the space. 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 wide variety of the same type of indoor units can be connected in multi combinations (including wall-mounted, cassette, hide-away and ceiling).
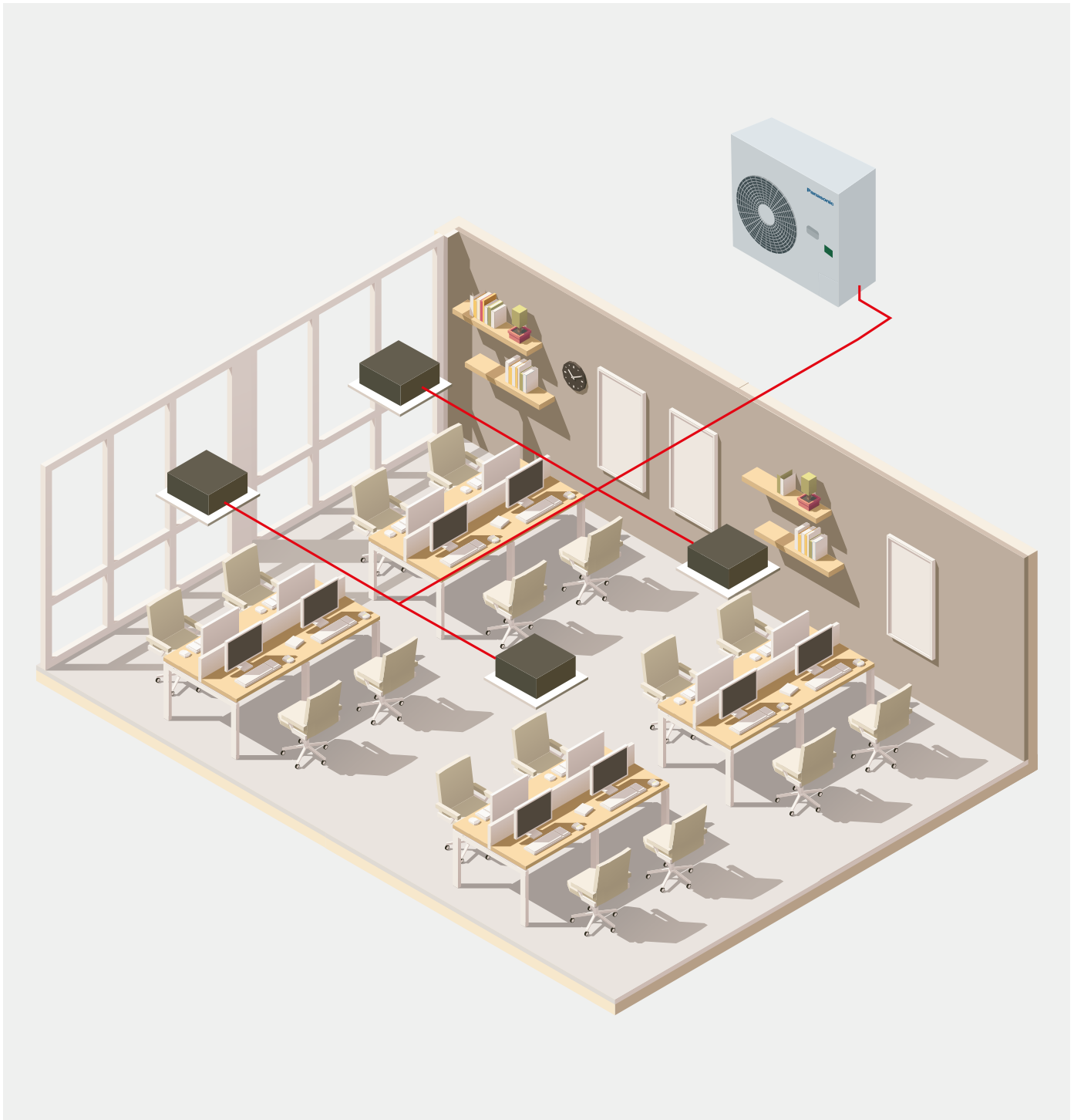
1 PACi NX Elite from 7,1 to 14,0 kW

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.

Commercial twin, triple and double-twin systems · R32

New
2023
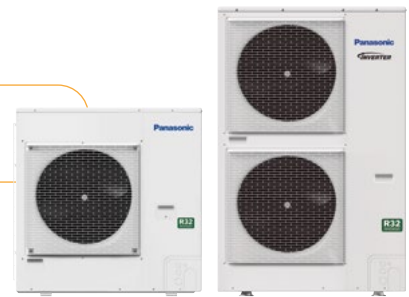
PACi Elite outdoor units · R32

			PACi NX				Big PACi	
			7,1 kW	**10,0 kW**	**12,5 kW**	**14,0 kW**	**20,0 kW**	**25,0 kW**
Outdoor unit single phase			U-71PZH4E5	U-100PZH4E5	U-125PZH4E5	U-140PZH4E5	—	—
Outdoor unit three phase			U-71PZH4E8	U-100PZH4E8	U-125PZH4E8	U-140PZH4E8	U-200PZH2E8	U-250PZH2E8
Cooling capacity [1]	Nominal (Min - Max)	kW	7,1 (2,2 - 9,0)	9,5 (3,1 - 12,5)	12,5 (3,2 - 14,0)	13,4 (3,3 - 16,0)	20,0 (5,7 - 22,4)	25,0 (6,1 - 28,0)
Heating capacity [1]	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 supply	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	62,0/66,0	76,0/70,0	86,0/78,0	89,0/83,0	164/164	160/160
Sound pressure	Cool / Heat (Hi)	dB(A)	48/50	52/52	55/55	56/56	59/61	59/63
Sound power	Cool / Heat (Hi)	dB(A)	65/67	69/69	73/73	74/74	77/79	78/82
Dimension	H x W x D	mm	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	1500 x 980 x 370	1500 x 980 x 370
Net weight	1ph / 3ph	kg	66	84/82	86/84	86/84	117	128
Piping diameter	Liquid	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	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 ~ 60	5 ~ 100	5 ~ 100	5 ~ 100	5 ~ 80	5 ~ 60
Elevation difference (in / out)	Max	m	15/30 [2]	15/30 [2]	15/30 [2]	15/30 [2]	30	30
Pre-charged pipe length		m	30	30	30	30	30	30
Additional gas amount		g/m	30	40	40	40	60	80
Refrigerant (R32) / CO_2 Eq.		kg / T	1,95/1,32	2,70/1,82	3,00/2,03	3,00/2,03	4,20/2,835	5,20/3,51
Operating range	Cool Min ~ Max	°C	-15 ~ +52	-20 [3] ~ +52	-20 [3] ~ +52	-20 [3] ~ +52	-15 ~ +46	-15 ~ +46
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24

1) With 4 way 90x90 cassette. 2) Outdoor unit located lower / outdoor unit located higher. 3) Pipe length up to 30 m.
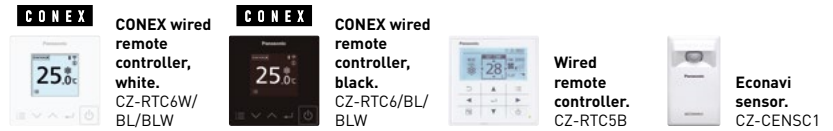
PACi NX Standard outdoor units · R32

			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 [1]	Nominal (Min - Max)	kW	10,0 (3,0 - 11,5)	12,5 (3,2 - 13,5)	14,0 (3,3 - 15,0)
Heating capacity [1]	Nominal (Min - Max)	kW	10,0 (3,0 - 14,0)	12,5 (3,3 - 15,0)	14,0 (3,4 - 16,0)
Power supply	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
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	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) [2]	Max	m	15/30	15/30	15/30
Pre-charged pipe length		m	30	30	30
Additional gas amount		g/m	45	45	45
Refrigerant (R32) / CO_2 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) With 4 way 90x90 cassette. 2) Outdoor unit located lower / outdoor unit located higher.

Compatible indoor units for multi combinations

Optional:

CONEX wired remote controller, white. CZ-RTC6W/BL/BLW

CONEX wired remote controller, black. CZ-RTC6/BL/BLW

Wired remote controller. CZ-RTC5B

Econavi sensor. CZ-CENSC1

PANASONIC AC SMART CLOUD and AC SERVICE CLOUD: Optional.

Wall-mounted	Indoor unit	Cooling capacity	Heating capacity	Dimension	Sound pressure [1]	Air flow [2]
				H x W x D	Hi / Med / Lo	Hi / Med / Lo
		kW	kW	mm	dB(A)	m³/min
3,6 – 5,0 kW	S-3650PK3E	3,6 – 5,0	4,0 – 5,6	302 x 1120 x 236	35/31/27 – 40/36/32	13,0/11,0/9,0 – 16,0/13,5/11,0
6,0 – 7,1 kW	S-6010PK3E	6,1 – 7,1	7,0 – 8,0	302 x 1120 x 236	47/44/40 – 47/44/40	20,0/17,5/14,5 – 20,0/17,5/14,5
10,0 kW	S-6010PK3E	9,5	9,5	302 x 1120 x 236	49/45/41	22,0/18,5/15,0

PANASONIC AC SMART CLOUD and AC SERVICE CLOUD: Optional.

4 way 60x60 cassette	Indoor unit (panel CZ-KPY4)	Cooling capacity	Heating capacity	Dimension indoor / panel	Sound pressure [1]	Air flow [2]
				H x W x D	Hi / Med / Lo	Hi / Med / Lo
		kW	kW	mm	dB(A)	m³/min
2,5 kW	S-25PY3E	2,5	3,2	243 x 575 x 575 / 30 x 625 x 625	31/28/25	8,5/7,0/6,0
3,6 kW	S-36PY3E	3,6	4,0	243 x 575 x 575 / 30 x 625 x 625	34/30/25	9,5/7,5/6,0
5,0 kW	S-50PY3E	5,0	5,6	243 x 575 x 575 / 30 x 625 x 625	39/34/27	12,0/9,5/6,5
6,0 kW	S-60PY3E	6,0	7,0	243 x 575 x 575 / 30 x 625 x 625	43/37/31	14,0/10,5/8,0

PANASONIC AC SMART CLOUD and AC SERVICE CLOUD: Optional.

4 way 90x90 cassette	Indoor unit (panels CZ-KPU3W/3AW)	Cooling capacity	Heating capacity	Dimension indoor / panel	Sound pressure [1]	Air flow [2]
				H x W x D	Hi / Med / Lo	Hi / Med / Lo
		kW	kW	mm	dB(A)	m³/min
3,6 – 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 – 32/29/27	14,5/13,0/11,5 – 16,5/13,5/11,5
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 – 37/31/28	21,0/16,0/13,0 – 22,0/16,0/13,0
10,0 – 12,5 kW	S-1014PU3E	10,0 – 12,5	11,2 – 14,0	319 x 840 x 840 / 33,5 x 950 x 950	45/38/32 – 46/39/33	36,0/26,0/18,0 – 37,0/27,0/19,0
14,0 kW	S-1014PU3E	14,0	16,0	319 x 840 x 840 / 33,5 x 950 x 950	47/40/34	38,0/29,0/20,0

PANASONIC AC SMART CLOUD and AC SERVICE CLOUD: Optional.

Ceiling	Indoor unit	Cooling capacity	Heating capacity	Dimension	Sound pressure [1]	Air flow [2]
				H x W x D	Hi / Med / Lo	Hi / Med / Lo
		kW	kW	mm	dB(A)	m³/min
3,6 – 5,0 kW	S-3650PT3E	3,5 – 5,0	4,0 – 5,6	235 x 960 x 690	36/32/28 – 37/33/28	14,0/12,0/10,5 – 15,0/12,5/10,5
6,0 – 7,1 kW	S-6071PT3E	6,0 – 6,8	7,0 – 8,0	235 x 1275 x 690	38/34/29 – 39/35/30	20,0/17,0/14,5 – 21,0/18,0/15,5
10,0 – 12,5 kW	S-1014PT3E	9,5 – 12,1	11,2 – 14,0	235 x 1590 x 690	42/37/34 – 46/40/35	30,0/25,0/23,0 – 34,0/28,0/24,0
14,0 kW	S-1014PT3E	13,4	16,0	235 x 1590 x 690	47/41/36	35,0/29,0/25,0

PANASONIC AC SMART CLOUD and AC SERVICE CLOUD: Optional.

Adaptive ducted unit	Indoor unit	Cooling capacity	Heating capacity	Dimension	External static pressure	Sound pressure [1]	Air flow [2]
				H x W x D	Nominal (Min - Max)	Hi / Med / Lo	Hi / Med / Lo
		kW	kW	mm	Pa	dB(A)	m³/min
3,6 – 5,0 kW	S-3650PF3E	3,6 – 5,0	4,0 – 5,6	250 x 800 x 730	30 (10 – 150) – 30 (10 – 150)	30/27/22 – 34/30/25	14,0/13,0/10,0 – 16,0/15,0/12,0
6,0 – 7,1 kW	S-6071PF3E	5,7 – 6,8	7,0 – 7,5	250 x 1000 x 730	30 (10 – 150) – 30 (10 – 150)	30/26/23 – 30/26/23	21,0/19,0/15,0 – 21,0/19,0/15,0
10,0 – 12,5 kW	S-1014PF3E	9,5 – 12,1	10,8 – 13,5	250 x 1400 x 730	40 (10 – 150) – 50 (10 – 150)	33/29/25 – 35/31/27	32,0/26,0/21,0 – 34,0/29,0/23,0
14,0 kW	S-1014PF3E	13,4	15,5	250 x 1400 x 730	50 (10 – 150)	39/35/29	36,0/32,0/25,0

* The data shown in these tables are based on PACi NX Elite combinations. 1) The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 2) Factory setting.

Simultaneous operation system combinations

PACi NX Elite from 7,1 to 14,0 kW simultaneous operation system combinations · R32

Capacity	Indoor	Outdoor 7,1 kW	10,0 kW	12,5 kW	14,0 kW
2,5 kW	S-25PY3E	Triple U-71 [2,5 2,5 2,5]	Double-twin U-100 [2,5 2,5 2,5 2,5]		
3,6 kW	S-36PY3E S-3650PF3E S-3650PK3E S-3650PT3E S-3650PU3E	Twin U-71 [3,6 3,6]	Triple U-100 [3,6 3,6 3,6]	Double-twin U-125 [3,6 3,6 3,6 3,6]	
4,5 kW	S-3650PF3E S-3650PK3E S-3650PT3E S-3650PU3E			Triple U-125 [4,5 4,5 4,5]	
5,0 kW	S-50PY3E S-3650PF3E S-3650PK3E S-3650PT3E S-3650PU3E		Twin U-100 [5,0 5,0]		Triple U-140 [5,0 5,0 5,0]
6,0 kW	S-60PY3E S-6071PF3E S-6010PK3E S-6071PT3E S-6071PU3E			Twin U-125 [6,0 6,0]	
7,1 kW	S-6071PF3E S-6010PK3E S-6071PT3E S-6071PU3E				Twin U-140 [7,1 7,1]

PACi NX Standard from 10,0 to 14,0 kW simultaneous operation system combinations · R32

Capacity	Indoor	Outdoor 10,0 kW	12,5 kW	14,0 kW
5,0 kW	S-50PY3E S-3650PF3E S-3650PK3E S-3650PT3E S-3650PU3E	Twin U-100 [5,0 5,0]		
6,0 kW	S-60PY3E S-6071PF3E S-6010PK3E S-6071PT3E S-6071PU3E		Twin U-125 [6,0 6,0]	
7,1 kW	S-6071PF3E S-6010PK3E S-6071PT3E S-6071PU3E			Twin U-140 [7,1 7,1]

Big PACi Elite from 20,0 to 25,0 kW simultaneous operation system combinations · R32

Capacity	Indoor	Outdoor 20,0 kW	25,0 kW
5,0 kW	S-50PY3E S-3650PF3E S-3650PK3E S-3650PT3E S-3650PU3E	Double-twin U-200 [5,0 5,0 5,0 5,0]	
6,0 kW	S-60PY3E S-6071PF3E S-6010PK3E S-6071PT3E S-6071PU3E		Double-twin U-250 [6,0 6,0 6,0 6,0]
7,1 kW	S-6071PF3E S-6010PK3E S-6071PT3E S-6071PU3E	Triple U-200 [7,1 7,1 7,1]	
10,0 kW	S-1014PF3E S-6010PK3E S-1014PT3E S-1014PU3E	Twin U-200 [10,0 10,0]	
12,5 kW	S-1014PF3E S-1014PT3E S-1014PU3E		Twin U-250 [12,5 12,5]

Refrigerant piping arrangements

Single
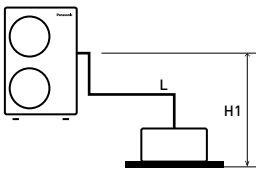
Twin
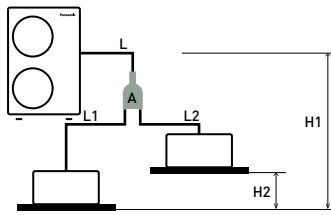
Triple
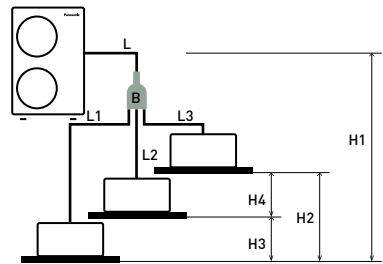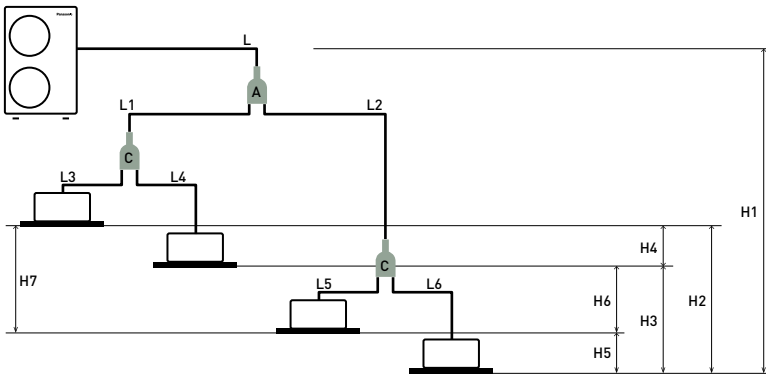
Double-twin

PACi NX 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 NX 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 NX Standard single and twin system from 7,1 to 14,0 kW			PACi NX Elite and 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 NX Standard single and twin system from 7,1 to 14,0 kW				PACi NX 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 piping diameter (L)		Indoor unit connection tube (L1, L2)		Outdoor unit main piping diameter (L)	Indoor unit connection piping diameter (L1, L2, L3, L4) (mm)					Outdoor unit main piping diameter (L) (mm)		Double-Twin distribution pipe (L1, L2) [1]	Indoor unit connection piping diameter [2]	
Unit type capacity	100	125	50	60	71 - 140	36	45	50	60	71	200	250	100 - 125	50	60 - 125
Liquid (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 (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.

Maximum 65 °C
water outlet temperature

PRO-HT Tank DHW: PAW-VP750DHW and PAW-VP1000LDHW   PRO-HT *TANK*

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
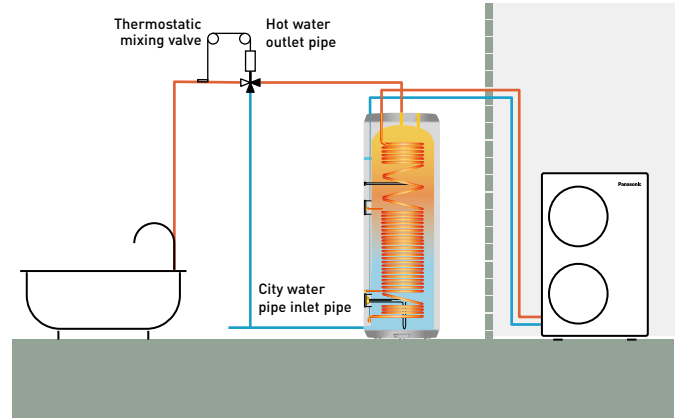
One by one system compatible list with PACi Elite

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 50 °C
· Maximum 50 °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 50 °C
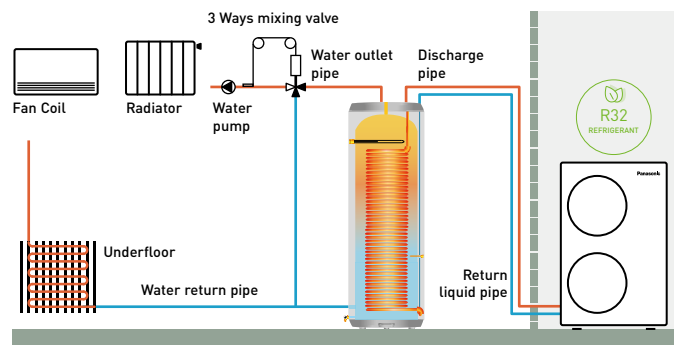
One by one system compatible list with PACi Elite

Model	Tank type	Product compatibility	Water outlet temperature range
PAW-VP380L	Heating and cooling	U-200PZH2E8	5 °C ~ 50 °C

207

PRO-HT Tank DHW

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

PRO-HT *TANK*

PRO-HT Tank			PAW-VP750LDHW-1	PAW-VP1000LDHW-1
COP DHW (A +7 °C, W 10~55 °C) EN 16147 [1]			4,10	3,86
COP DHW (A +15 °C, W 10~55 °C) EN 16147 [2]			4,79	4,79
Energy efficiency class (from A+ to F) [3]			A+	A+
Water volume (net)		L	726	933
Reference tapping cycle			2XL	2XL
Standby heat loss according to EN16147		W/h	77	80
Maximum water temperature	Heat pump	°C	65	65
	Electrical heater	°C	85	85
Dimension	H x Ø	mm	1855 x 990	2210 x 990
Net weight / with water		kg	179 / 905	191 / 1124
Stainless steel 316 L tank			Yes	Yes
Connections to the water supply network			RP 1¼	RP 1¼
Average insulation thickness		mm	100	100
Number of electrical heaters x power		W	1 x 6000	1 x 6000
Electric protection		A	16	16
Moisture protection (PAW-VP-RTC5B-PAC)			IP24	IP24
Heat exchanger connection	Inlet	Inch (mm)	1/2 (12,70)	1/2 (12,70)
	Outlet	Inch (mm)	3/4 (19,05)	3/4 (19,05)
Outdoor unit			**U-250PE2E8A**	**U-250PE2E8A**
Nominal electrical power - related to rated heat output		W	6670	6670
Energy consumption by chosen cycle (A +7 °C, W 10~55 °C)		kWh	6,00	6,36
Energy consumption by chosen cycle (A +15 °C, W 10~55 °C)		kWh	5,12	5,12
Power supply	Voltage	V	400	400
	Phase		Three phase	Three phase
	Frequency	Hz	50	50
Maximum power consumption	Without heater	W	12900	12900
	With heater	W	18900	18900
Dimension	H x W x D	mm	1642 x 1095 x 529	1642 x 1095 x 529
Net weight		kg	138	138
Sound pressure at 1 m from outdoor unit		dB(A)	57	57
Refrigerant (R410A) / CO_2 Eq.		kg / T	6,4 / 13,363	6,4 / 13,363
Piping diameter	Liquid	Inch (mm)	1/2 (12,70)	1/2 (12,70)
	Gas	Inch (mm)	1 (25,40)	1 (25,40)
Pipe length range [4]		m	30	30
Elevation difference (in / out)		m	30 (OU above) 30 (OU below)	30 (OU above) 30 (OU below)
Pipe length for nominal capacity		m	7,5	7,5
Pre-charged pipe length		m	> 7,5	> 7,5
Additional gas amount		g/m	Refer to manual	Refer to manual
Operating range - outdoor ambient	Heat Min ~ Max	°C	-20 ~ +35	-20 ~ +35

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. 4) 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.

* When connected as pressurised, safety valve is mandatory.

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

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 | 5 YEARS COMPRESSOR WARRANTY

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*

PRO-HT Tank			PAW-VP380L
Cooling capacity at 35 °C, water outlet 7 °C		kW	12,8
Heating capacity		kW	25
Heating capacity at +7 °C, heating water temperature at 45 °C		kW	23
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+++
$\eta_{s,h}$ (LOT1) [1]		%	193
Dimension	H x Ø	mm	1820 x 690
Water volume (net)		L	380
Shipping weight		kg	99
Connections to the water supply network			RP 1¼
Heating water flow (ΔT=5 K. 35 °C)		m³/h	3,9
Water outlet	Cool Min ~ Max	°C	5 ~ 15
	Heat Min ~ Max	°C	25 ~ 45
Piping diameter	Liquid	Inch (mm)	1/2 (12,70)
	Gas	Inch (mm)	3/4 (19,05)
Outdoor unit			**U-200PZH2E8**
Dimension	H x W x D	mm	1500 x 980 x 370
Net weight		kg	117
Sound pressure at 1 m from outdoor unit		dB(A)	57
Refrigerant (R32) / CO_2 Eq.		kg	4,20 / 3 510
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)
	Gas	Inch (mm)	1 (25,40) + adapter
Pipe length range [2]		m	30
Elevation difference (in / out)		m	30 (OU above) 30 (OU below)
Pipe length for nominal capacity		m	7,5
Pre-charged pipe length		m	> 7,5
Additional gas amount		g/m	Refer to manual
Operating range - outdoor ambient	Cool Min ~ Max	°C	-15 ~ +46
	Heat Min ~ Max	°C	-20 ~ +35

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.

Accessories	
PAW-VP-RTC5B-PAC	Tank controller for PACi system
PAW-IU39	Additional heater

Technical focus

· Water volume 380 L
· Maximum hot water production 50 °C
· Tank and heat exchanger made with stainless steel
· Heating coil 52 m 316 L
· Internal and external pickling
· Foam insulation 70 mm
· Tank material 2 mm 316 L
· ABS external case

R32   A+++ ErP 35°C   45°C OUTPUT WATER   -20 °C OPERATION RANGE   5 YEARS COMPRESSOR WARRANTY

Panasonic PACi with Water Heat Exchanger for chilled and hot water production
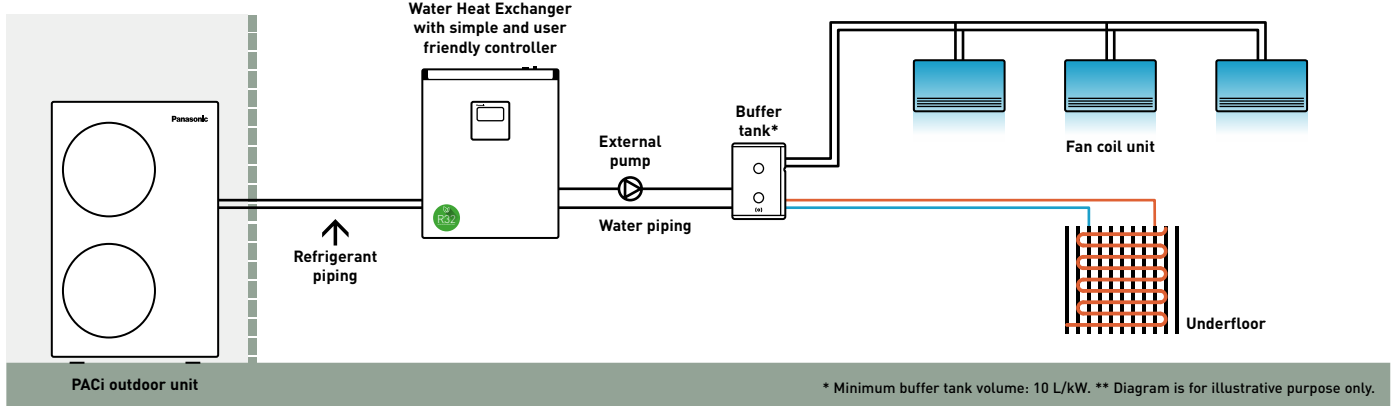
Introducing a highly-efficient Water Heat Exchanger for PACi Series. This ground-breaking product provides further possibilities by adding hydronic options.

Water outlet temperature:
Cooling: 5 ~ 15 °C
Heating: 30 ~ 55 °C

Highly-efficient Water Heat Exchanger for PACi Series.

System example.

Water Heat Exchanger with simple and user friendly controller

External pump

Buffer tank*

Fan coil unit

Refrigerant piping

Water 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
· Reducing the amount of HFC refrigeration in the project

2 Flexible and space saving system

· 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
· Operation down to -20 °C ambient without the need for glycol

Flexible and space saving system

Compact and light unit.

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

* 90 m for PAW-200W5APAC-1.

Only
205 mm
depth

Light weight
27 kg

Piping length
90 m

205 mm
550 mm
455 mm
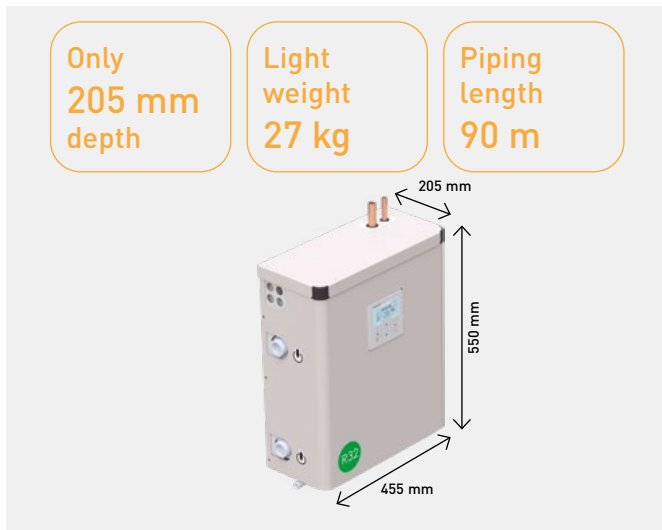
2 installation options.

· 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

Quick simple Install

Installer friendly

Wall-mounted.

Floor-standing.

* Support feet included.
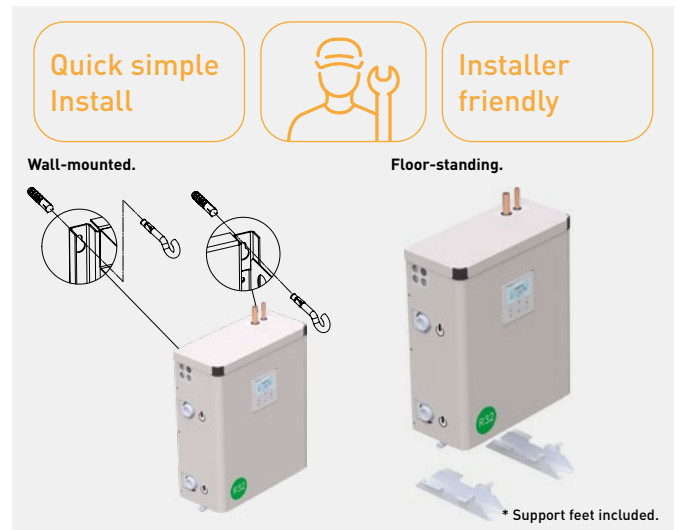
Foodchain/Small office application

· Fulfilling R32 refrigerant needs to follow environmental perspective, Company policy
· Hydraulic system to reduce total amount of HFC refrigeration
· Water solution to substitute electric heating system
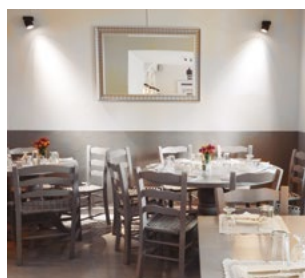
Foodchain.

Residential/Commercial retail application

· Water solution to substitute existing boiler system
· For heating projects with longer than 50 m piping

Commercial retail.

PACi Water Heat Exchanger (WHE) is the ideal solution for residential and commercial applications; the investment costs can be amortised in a short period.
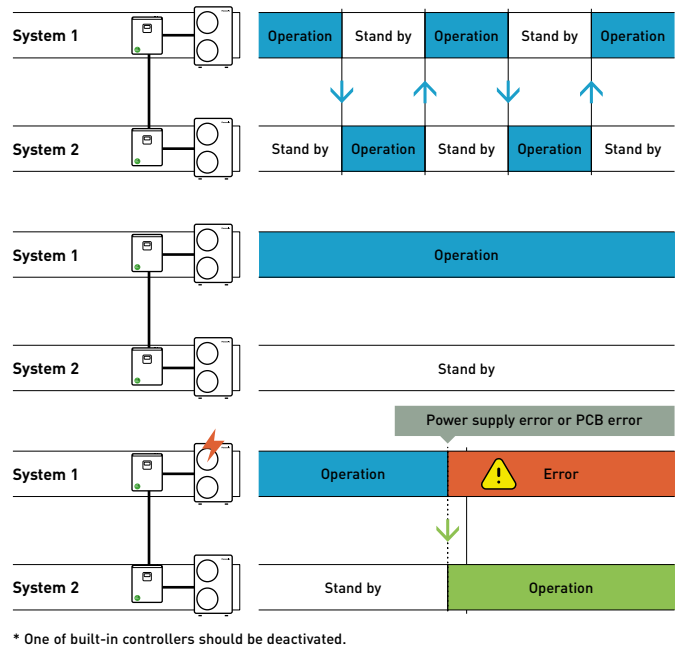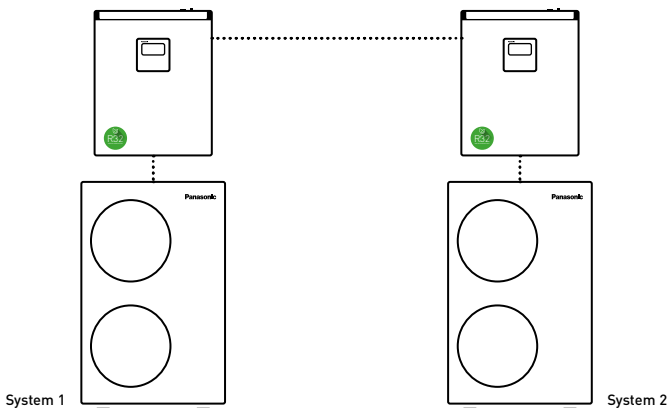
Easy maintenance operation from two points of access

Removable lid for electrical installation

Electrical Box

Integrated Control display

Rear differential pressure switch for BPHE safety

Plate heat exchanger with optimised distributor for R32 refrigerant

Antifreeze Sensor

Completely removable metallic case: full access for maintenance
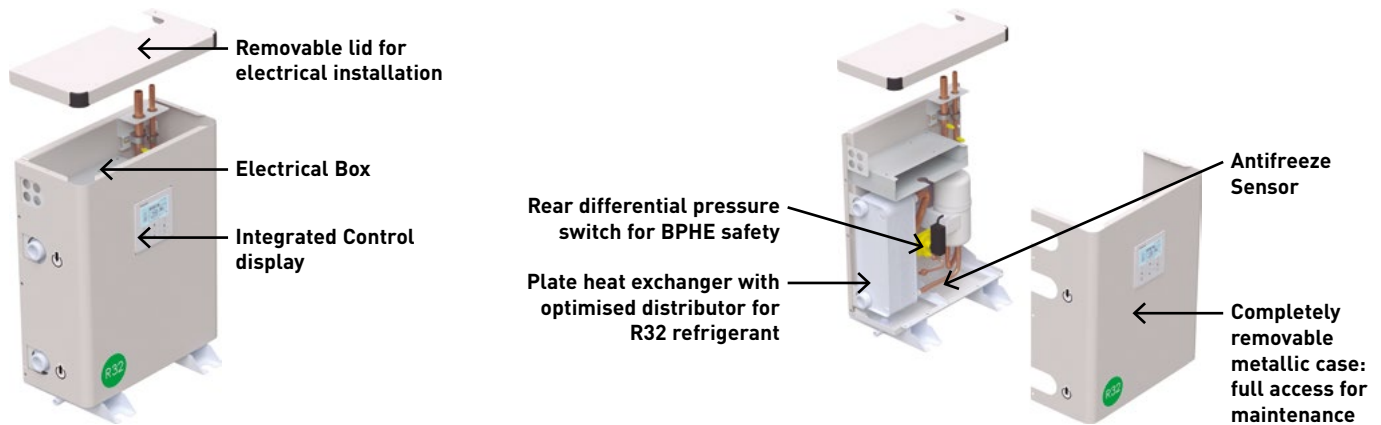
Integrated cascade control as standard for maximum ease and flexibility

Built-in cascade control for 2 units.
The control of 2 refrigerant systems can be combined 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 Backup 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.

PACi Water Heat Exchanger can be connected as a cascade with up to 4 groups of 8 units, reaching up to 600 kW

Optional PAW-PACR4 cascade controller allows up to three groups, with each group containing between 1-8 units, to be combined into a cascade for failure substitution or temperature assist.

· Maximum 4 groups (up to 8 units per group)
· Rotation
· Failure substitution
· Temperature assist
· Operation output signal
· Alarm output signal

Example: 4 x groups.
Maximum available capacity per group: 8 x 25 kW = 200 kW.
Total maximum available capacity: 4 x 200 kW = 600 kW.

Temperature sensor

Group 1 — 8 units
Group 2 — 8 units
Group 3 — 8 units
Group 4 — 8 units
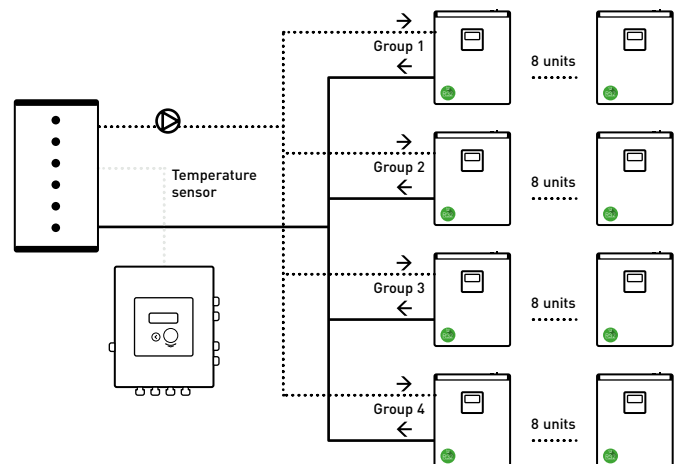
PACi with Water Heat Exchanger for chilled and hot water production
Constant 55 °C flow available.

Short-term investment recovery.
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.

Water Heat Exchanger			PAW-200W5APAC-1	PAW-250W5APAC-1
Cooling capacity [1]		kW	20,0	26,0
EER [1]		W/W	3,03	2,89
Heating capacity [2]		kW	26,5	31,6
COP [2]		W/W	3,34	3,31
Energy efficiency class (Scale A+++ to D) [3]	35 °C (low temperature HP)		A+++	A+++
	55 °C (low temperature HP)		A+	A+
$\eta_{s,h}$ (LOT1) [4]		%	178	178
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
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	1/2 (12,70)
	Gas	Inch (mm)	1 (25,40)	1 (25,40)
Pipe length range		m	5 ~ 90	5 ~ 60
Elevation difference (in / out)		m	30	30
Pre-charged pipe length		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	+30 ~ +55	+30 ~ +55
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 35 °C leaving warm water temperature and 7 °C ambient air temperature according to EN14511 standard. 3) Following COMMISSION REGULATION (EU) No 811/2013 for low-temperature heat pumps. Scale from A+++ to D. 4) Following COMMISSION REGULATION (EU) No 813/2013 for low-temperature heat pumps.

Professional solution

Water heat exchanger is compatible with R32 PACi.
Many air conditioning manufacturers are selling R32 systems and it is becoming the standard refrigerant for split type air conditioning, 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.
Operation down to -20 °C with no glycol as the heat exchanger is installed indoors.

R32 | A++ ErP 35°C | -20 °C HEATING MODE | 46 °C COOLING MODE | ADVANCED CONTROL | 5 YEARS COMPRESSOR WARRANTY

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.

213

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 R22 refrigerant was banned within the European Union.
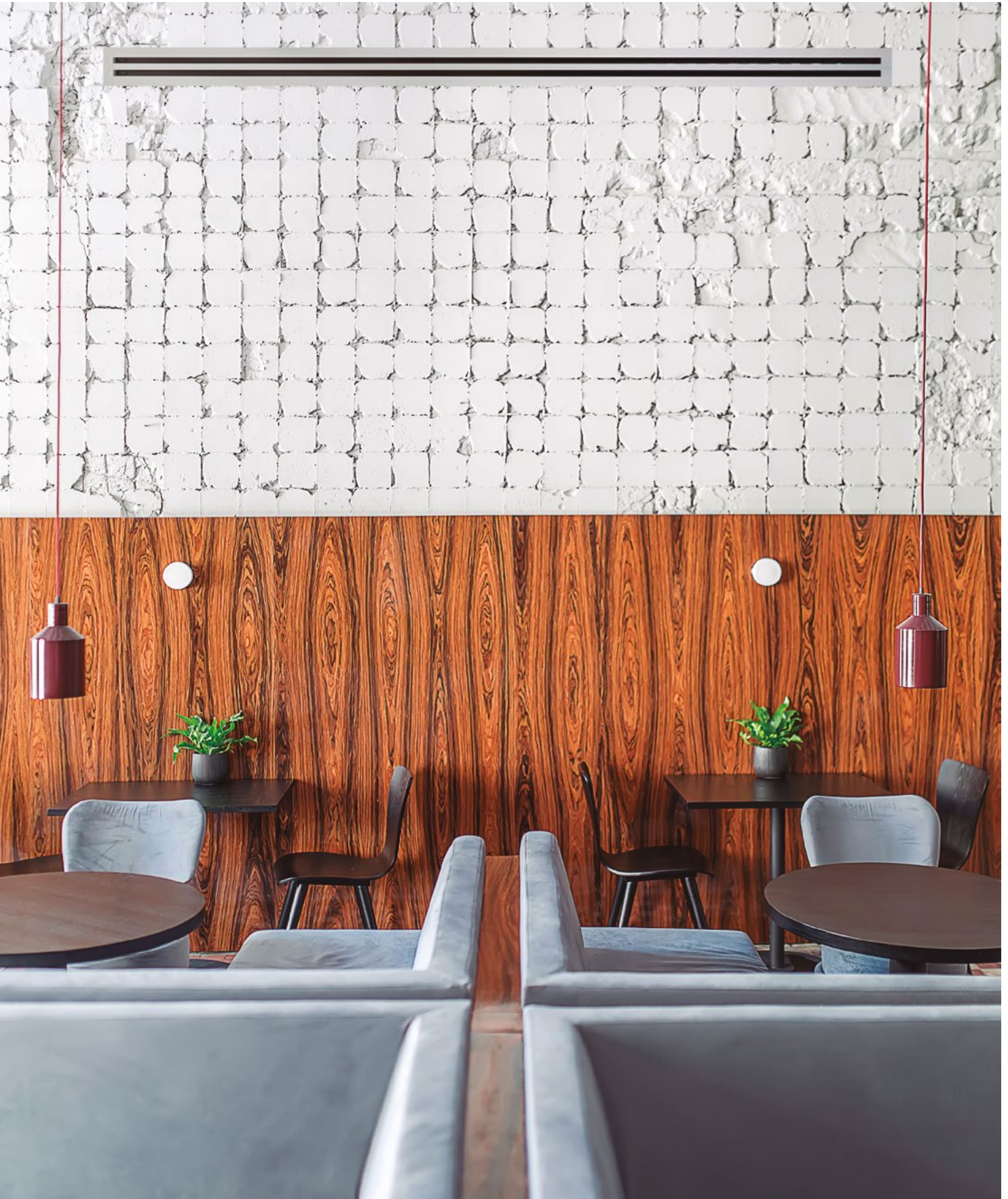
Panasonic is doing its part.

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 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 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 and 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.
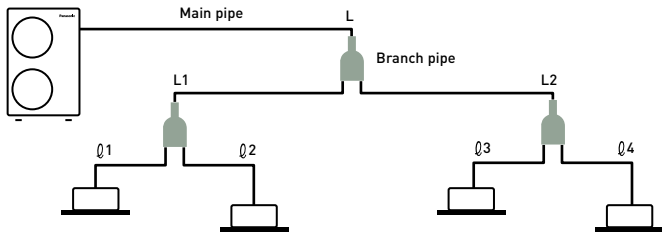
When reusing the existing piping as it is without removing dirt and dust, inadequate piping could result a renewal appliance in failure.

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.

· 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, ℓ1 - ℓ4 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.

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

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

See Table 1 – 2 ← 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.**

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?

Y ↓

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

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   □ Limited piping length   50 m Maximum piping length
▽ Cooling capacity down   ✕ Unallowable   (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 |
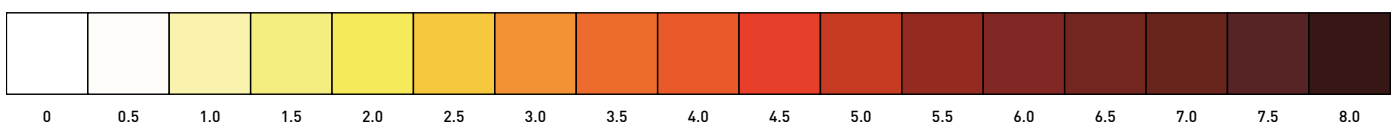
Accessories and control

Drain kits

Drain kit to suit outdoor units from 5,0 to 7,1 kW.
————
CZ-50DRS1

Drain kit to suit outdoor units from 10,0 to 25 kW.
————
CZ-140DRS1

Branch Pipes, Header

Branch pipe.
————
CZ-P224BK2BM

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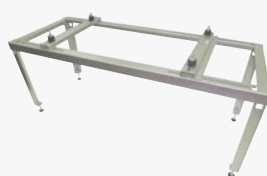————
CZ-P680BK2BM

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
Safe working load: 500 kg
————
PAW-GRDBSE20

Panels

Panel for 4 way 60x60 cassette - PY3.
————
CZ-KPY4

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

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

Sensors

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

Remote temperature sensor.
————
CZ-CSRC3

Plenums
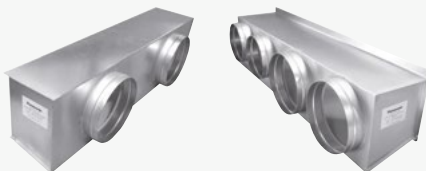
Air outlet plenum for S-3650PF3E.

————

CZ-56DAF2

Air outlet plenum for S-6071PF3E.

————

CZ-90DAF2

Air outlet plenum for S-1014PF3E.

————

CZ-160DAF2

Air outlet plenum for S-200PE3E5B and S-200PE2E5.

————

CZ-TREMIESPW705

Air outlet plenum for S-250PE3E5B and S-250PE2E5.

————

CZ-TREMIESPW706

VRF Smart Connectivity+ ⊕

Remote controller Panasonic Net Con, RH, No PIR, R1/R2.

————

SER8150R0B1194

Remote controller Panasonic Net Con, RH, PIR, R1/R2.

————

SER8150R5B1194

Wireless ZigBee® Pro module / Green Com card.

————

VCM8000V5094P

Hotel room expansion module 14 indoor units.

————

HRCEP14R

Hotel room controller 28 indoor units.

————

HRCPBG28R

Hotel room controller w/Display 42 indoor units.

————

HRCPDG42R

Door / window wireless sensor.

————

SED-WDC-G-5045

Wall / ceiling (motion) wireless sensor.

————

SED-MTH-G-5045

CO_2 sensor.

————

SED-CO2-G-5045

Sensor with room temperature and humidity.

————

SED-TRH-G-5045

Water leakage sensor.

————

SED-WLS-G-5045

Cover frame. Silver.
————
FAS-00

Cover frame. White.
————
FAS-01

Cover frame. Glossy translucent white.
————
FAS-03

Cover frame. Light tan wood.
————
FAS-05

Cover frame. Dark brown wood.
————
FAS-06

Cover frame. Dark black wood.
————
FAS-07

Cover frame. Brushed steel finish.
————
FAS-10

Controller and touch controllers for hotels with dry contacts
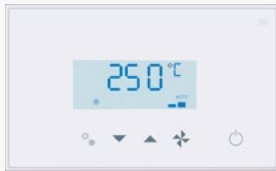
Modbus RS-485 touch room controller with I/O, white.
————
PAW-RE2C4-MOD-WH

Touch display control with 2 digital inputs, white.
————
PAW-RE2D4-WH
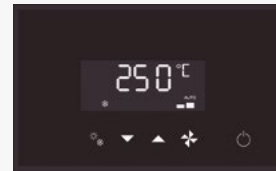
Modbus RS-485 touch room controller with I/O, black.
————
PAW-RE2C4-MOD-BK

Touch display control with 2 digital inputs, black.
————
PAW-RE2D4-BK

Hotel sensors for dry contacts

Wall motion sensor 24 V.
————
PAW-WMS-DC

Wall motion sensor 240 V AC.
————
PAW-WMS-AC

Ceiling motion sensor 24 V.
————
PAW-CMS-DC

Ceiling motion sensor 240 V AC.
————
PAW-CMS-AC

Power supply 24 V.
————
PAW-24DC

Door or window contact.
————
PAW-DWC

Centralised controls

System controller for 64 indoor units with weekly timer.
————
CZ-64ESMC3
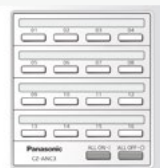
Central ON / OFF controller, up to 16 groups, 64 indoor units.
————
CZ-ANC3
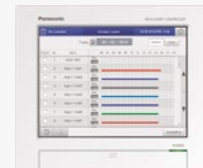
Intelligent controller (touch screen/web server) to control up to 256 indoors with included load distribution ratio (LDR).
————
CZ-256ESMC3

Panasonic AC Smart Cloud ⊕

⊕ ALL REFERENCES RELATED TO AC SMART CLOUD IS IN THE DEDICATED PAGE

Panasonic AC Smart Cloud. Cloud internet control. Up to 128 groups. Controls 128 units.
————
CZ-CFUSCC1

BMS interface with S-Link ⊕

Modbus RTU and TCP interface for 16 indoor units. ———— PAW-AC2-MBS-16P	**KNX interface for 16 indoor units.** ———— PAW-AC2-KNX-16P	**BACnet IP and MSTP interface for 16 indoor units.** ———— PAW-AC2-BAC-16P
Modbus RTU and TCP interface for 64 indoor units. ———— PAW-AC2-MBS-64P	**KNX interface for 64 indoor units.** ———— PAW-AC2-KNX-64P	**BACnet IP and MSTP interface for 64 indoor units.** ———— PAW-AC2-BAC-64P
Modbus RTU and TCP interface for 128 indoor units. ———— PAW-AC2-MBS-128P		**BACnet IP and MSTP interface for 128 indoor units.** ———— PAW-AC2-BAC-128P

Accessories interfaces ⊕

Commercial Wi-Fi Adaptor. ———— CZ-CAPWFC1	**KNX interface (Intesis).** ———— PAW-RC2-KNX-1i	**Modbus RTU interface (Intesis).** ———— PAW-RC2-MBS-1

Modbus RTU interface to control 4 indoor/ groups (Intesis). ———— PAW-RC2-MBS-4	**BACnet IP and MSTP (Intesis).** ———— PAW-RC2-BAC-1	**NEW KNX interface (Airzone).** ———— PAW-AZRC-KNX-1

NEW Modbus RTU interface (Airzone).

————

PAW-AZRC-MBS-1

NEW BACnet IP and MSTP interface (Airzone).

————

PAW-AZRC-BAC-1

RAC interface adapter for integration into S-Link, plus external input and alarm/status output (for YKEA units).

————

CZ-CAPRA1

Centralised controls. Connection with general equipment

Adaptor for ON / OFF control of external devices.

————

CZ-CAPC3

Demand control for Mini ECOi and PACi outdoor units.

————

CZ-CAPDC3

Mini series parallel device controlling indoor units, maximum 1 group and 8 indoor unit.

————

CZ-CAPBC2

Communication Adaptor. Up to 128 groups. Controls 128 units.

————

CZ-CFUNC2

Individual controls

NEW CONEX wired remote controller (non-wireless), white.

————

CZ-RTC6W [1]

NEW CONEX wired remote controller with Bluetooth®, white.

————

CZ-RTC6WBL [1]

NEW CONEX wired remote controller with Wi-Fi and Bluetooth®, white.

————

CZ-RTC6WBLW [1][2]

CONEX wired remote controller (non-wireless), black.

————

CZ-RTC6

CONEX wired remote controller with Bluetooth®, black.

————

CZ-RTC6BL

CONEX wired remote controller with Wi-Fi and Bluetooth®, black.

————

CZ-RTC6BLW [2]

Design wired remote controller with Econavi function and datanavi.

————

CZ-RTC5B

Infrared remote controller for wall-mounted.

————

CZ-RWS3

Infrared remote controller and receiver for 4 way 60x60 cassette - PY3 with panel.

————

CZ-RWS3 + CZ-RWRY3

Infrared remote controller and receiver for 4 way 90x90 cassette.

————

CZ-RWS3 + CZ-RWRU3W

Infrared remote controller and receiver for ceiling.

————

CZ-RWS3 + CZ-RWRT3

Infrared remote controller and receiver for all indoor units.

————

CZ-RWS3 + CZ-RWRC3

Accessories PCB
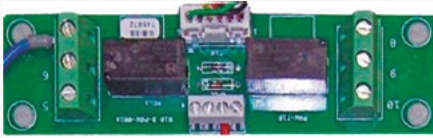
T10 interface PCB with digital and relay connections.

————

PAW-T10

PCB for server room application, control up to 4 indoor unit groups, redundancy, backup, etc.
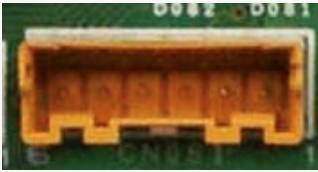
————

PAW-PACR4

Connector to PACi NX indoor unit's PCB to provide OPT functions.

————

PAW-OPT-NX

Accessories cables

Cable for all the T10 functions.

————

CZ-T10

Cable to operate external EC fan.

————

PAW-FDC

Cable for all option monitoring signals.

————

PAW-OCT

Cable with force thermo OFF/ leakage detection.

————

PAW-EXCT

PRO-HT Tank accessories

Tank controller for PACi system.

————

PAW-VP-RTC5B-PAC

Additional heater.

————

PAW-IU39

1) Available in Autumn 2023. 2) Only compatible with PACi NX Series.