



PACi NX adaptive ducted unit PF3 Elite

1. Highly flexible installation

- 2 installation possibilities (horizontal / vertical)

2. High seasonal performance with slim body

- Energy class SEER: A++ / SCOP: A++ at 7,1 kW
- Compact 250mm height, 25-39kg

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

3. Comfort operation

- Super Quiet operation, minimum 22dB(A)*
- Wired remote controller CZ-RTC6WBL and CZ-RTC6BL allows easy system setting via Bluetooth®

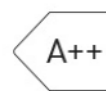
* 3,6kW model and when operating with external static pressure 50Pa in low fan mode.

4. Better indoor air quality with nanoe™ X

- nanoe™ X (Generator Mark 2: 9,6 trillion hydroxyl radicals/sec) as standard for better indoor air quality



PACi



PACi NX Series

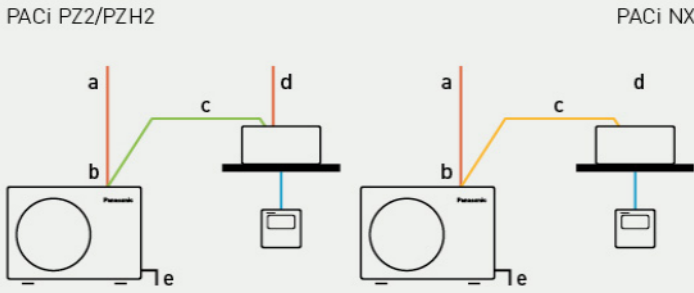


PACi NX Series for absolute ease of refurbishment. The next generation is here

NX Series with R32 refrigerant has been developed to meet the demand of easy refurbishment with 3 wire method. 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. - PACi NX Series: 3 wire method.

a. Power supply - b: Outdoor unit power wiring - c: Signal wiring (2 wire shielded) - d: Power supply - e: Earth - f: Power + Signal Wiring (3 wire + earth)



PACi NX Elite – Top-tier commercial air conditioning

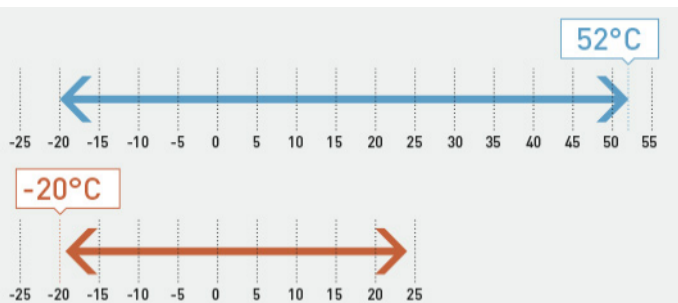
This series provide outstanding seasonal performance at extreme ambient condition both in heating and cooling.

- Absolute ease of refurbishment
- Low-height single fan outdoor unit design
- Top class SEER: A++ / SCOP: A++ at 7,1kW
- Operation range up to 52°C in cooling and down to -20°C in heating
- Maximum piping length 100m

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

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

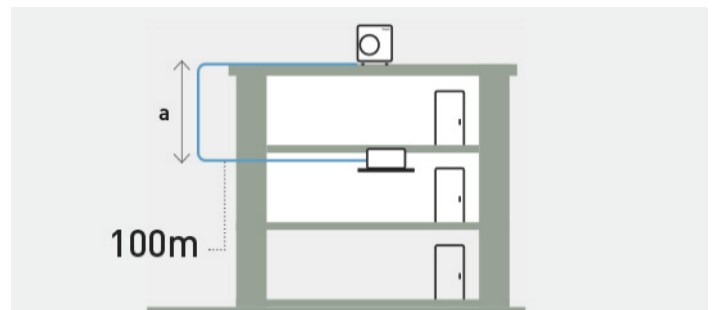
a		
3,6kW	A++	A+
5,0kW	A++	A+
6,0kW	A++	A+
7,1kW	A++	A++
10,0kW	A++	A+
12,5kW	281,7%	165,0%
14,0kW	275,9%	162,6%



PACi NX Elite – 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 – 14,0kW.



PACi NX Elite – Long piping allowance maximum 100m*

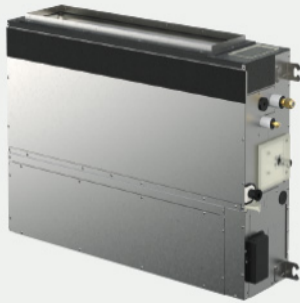
Increased piping length gives great design flexibility to adapt various building types and sizes.

Piping length: 100m (10,0 to 14,0kW), 60m (7,1kW), 40m (>7,1kW).

a: Maximum height difference between outdoor unit and indoor unit: 30m (15m if the outdoor unit is below the indoor unit).

* For models 10,0 – 14,0kW.

PACi NX Series



2 installation possibilities (horizontal / vertical)

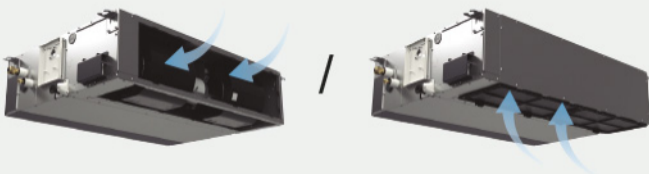
Vertical installation is available.
External static pressure 150Pa, sufficient for remotely installing units away from the rooms.



Compact body

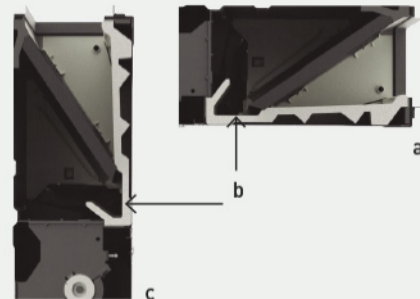
- Only 250mm high
- Light units from 25 to 39kg

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



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.





Improved drain pan design

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

a: Horizontal - b: Shared drain pan - c: Vertical



PACi NX Series

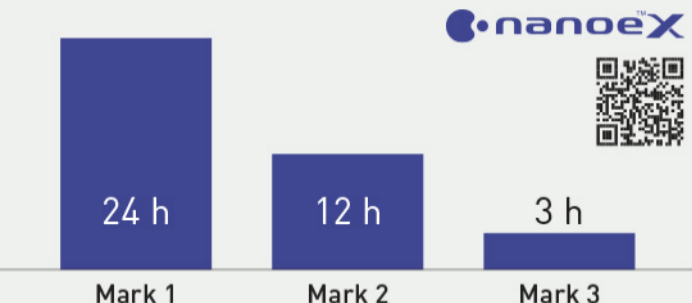
Bringing nature's balance indoors
nanoe™ X, technology with the benefits of hydroxyl radicals
 Abundant in nature, hydroxyl radicals have the capacity to inhibit pollutants. nanoe™ X, technology can bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner and pleasant place to be.

7 effects of nanoe™ X – Panasonic unique technology

- 1. Capacity to inhibit 5 types of pollutants:** Bacteria and viruses - Mould - Allergens - Pollen - Hazardous substances
- 2. Deodorises:** Odours
- 3. Moisturises:** Skin and hair


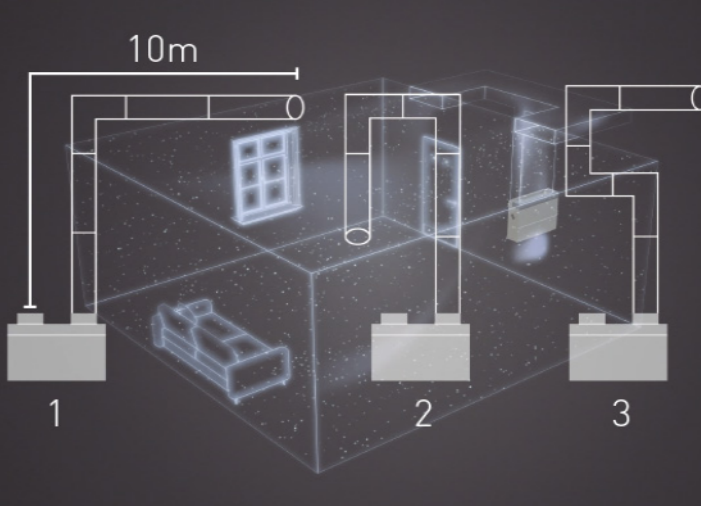



nanoe™ X: improving protection 24/7
 Acts to clean your air, so that the indoor environment can be a cleaner and more pleasant place to be all day long. nanoe™ X works together with heating or cooling function when you are at home and can work independently when you are away. Give the air conditioning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




Mark	Time required to inhibit 99% of cedar pollen
Mark 1	24 h
Mark 2	12 h
Mark 3	3 h

Comparison of time required to inhibit 99% of cedar pollen
 The result of nanoe X Generator Mark 3. Inhibits pollen in 1/4 the time of nanoe X Generator Mark 2*.
* Effect after 3 hours in a test space of approx. 24m³. The figures are not the results of testing in an actual operating space.

10m

1 2 3

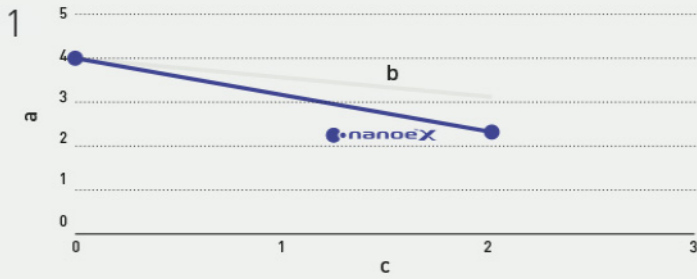


Better indoor air quality with nanoe™ X
 The performance of nanoe™ X technology is maintained, even with 10m long ducts*. The effect of improved air quality is sufficient to allow for numerous duct shapes to fit the application.
* Panasonic internal survey.

- 1. One bend**
- 2. Two bends**
- 3. Three bends**

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

PACi NX Series



nanoE™ X effect against odour proven in large space

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

1. Tobacco deodorisation ratio

nanoE™ X reduced by 0,7 rank.

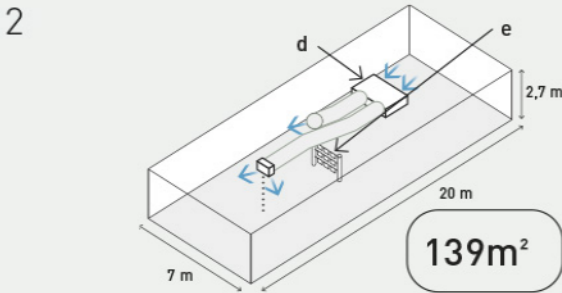
a: Odour level - b: Natural reduction - c: Time (hour).

2. Test ambient.

3rd party international testing institute KAKEN* conducted the performance experiment of Adaptive ducted equipped with nanoE X enerador Mark 2 device removing tobacco odour.

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

d: Ducted unit - e: Adhered odour.



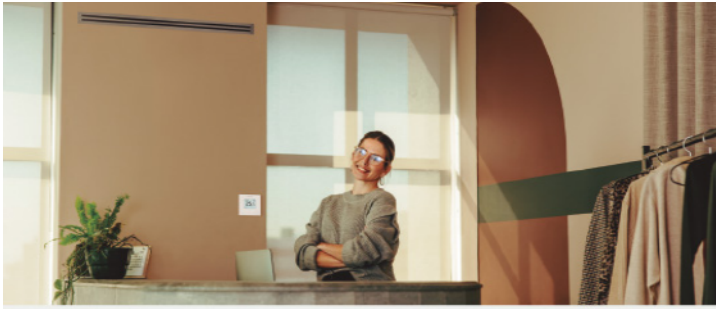
PACi NX Series Elite 4 way 60x60 cassette Inverter+ - R32

PACi NX Series Elite adaptive ducted unit Inverter+ - R32		SINGLE PHASE					THREE PHASE				
		3.6 kW	7.1 kW	10.0 kW	12.5 kW	14.0 kW	7.1 kW	10.0 kW	12.5 kW	12.5 kW	14.0 kW
Kit		KIT-36PFH3Z5	KIT-71PF3ZH45	KIT-100PF3ZH45	KIT-125PF3ZH45	KIT-140PF3ZH45	KIT-71PF3ZH48	KIT-100PF3ZH48	KIT-125PFH3Z8	KIT-125PF3ZH48	KIT-140PF3ZH48
Remote controller		CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity (Nominal)	kW	3,6	6,8	9,5	12,1	13,4	6,8	9,5	12,1	12,1	13,4
Cooling capacity (Min)	kW	1,2	2,2	3,1	3,2	3,3	2,2	3,1	3,2	3,2	3,3
Cooling capacity (Max)	kW	4,0	7,8	11,4	13,6	15,3	7,8	11,4	13,6	13,6	15,3
EER (Nominal) (1)	W/W	4,24	3,74	4,09	3,53	3,38	3,74	4,09	3,58	3,53	3,38
EER (Min) (1)	W/W		2,41	2,82	3,00	2,59	2,41	2,82		3,00	2,59
EER (Max) (1)	W/W		5,64	5,08	5,00	4,18	5,64	5,08		5,00	4,18
SEER/ηsc (2)	%	6,8 A++	7,1 A++	7,4 A++	281,7%	275,9%	7,1 A++	7,4 A++	281,7 %	281,0%	275,2%
Pdesign (cooling)	kW	3,6	6,8	9,5	12,1	13,4	6,8	9,5	12,1	12,1	13,4
Input power cooling (Nominal)	kW	0,850	1,82	3,23	3,43	3,96	1,82	2,32	3,38	3,43	3,96
Input power cooling (Min)	kW		0,39	0,61	0,64	0,79	0,39	0,61		0,64	0,79
Input power cooling (Max)	kW		3,24	4,04	4,54	5,90	3,24	4,04		4,54	5,90
Annual energy consumption cooling (3)	kWh/a	185	332	447	—	—	332	447	—	—	—
Heating capacity (Nominal)	kW	4,0	7,5	10,8	13,5	15,5	7,5	10,8	13,5	13,5	15,5
Heating capacity (Min)	kW	1,2	2,0	3,1	3,2	3,3	2,0	3,1	3,2	3,2	3,3
Heating capacity (Max)	kW	5,0	9,0	13,5	15,4	17,4	9,0	13,5	15,4	15,4	17,4
COP (Nominal) (1)	W/W	4,17	4,03	3,88	3,46	3,33	4,03	3,88	3,46	3,46	3,33
COP (Min) (1)	W/W		3,16	3,07	3,06	3,14	3,16	3,07		3,06	3,14
COP (Max) (1)	W/W		5,41	5,25	5,16	4,29	5,41	5,25		5,16	4,29
SCOP/ηsc (2)	%	4,5 A+	4,7 A++	4,3 A+	165,0%	162,6%	4,7 A++	4,3 A+	170,0 %	165,0%	162,6%
Pdesign at -10°C	kW	3,6	4,7	7,8	9,3	9,5	4,7	7,8	9,3	9,3	9,5
Input power heating (Nominal)	kW	0,96	1,86	2,78	3,90	4,65	1,86	2,78	3,9	3,90	4,65
Input power heating (Min)	kW		0,37	0,59	0,62	0,77	0,37	0,59		0,62	0,77
Input power heating (Max)	kW		2,85	4,40	5,04	5,55	2,85	4,40		5,04	5,55
Annual energy consumption heating (3)	kWh/a	1.120	1.393	2.540	—	—	1.394	2.540	—	—	—
Indoor unit		S-3650PF3E	S-6071PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E	S-6071PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E
External static pressure (Nominal) (4)	Pa	30	30	40	50	50	30	40	50	50	50
External static pressure (Min) (4)	Pa	10	10	10	10	10	10	10	10	10	10
External static pressure (Max) (4)	Pa	150	150	150	150	150	150	150	150	150	150
Moisture removal volume	L/h	14,0	21,0	20,0	34,0	36,0	21,0	32,0	34,0	34,0	36,0
Indoor air flow (Hi)	m³/min	13,0	19,0	26,0	29,0	32,0	19,0	26,0	29,0	29,0	32,0
Indoor air flow (Med)	m³/min	10,0	15,0	21,0	23,0	25,0	15,0	21,0	23,0	23,0	25,0
Indoor air flow (Lo)	m³/min	0,9	2,7	3,2	4,1	4,9	2,7	3,2	4,1	4,1	4,9
Indoor sound pressure (Hi) (5)	dB(A)	30	30	33	35	39	30	33	35	35	39
Indoor sound pressure (Med) (5)	dB(A)	27	26	29	31	35	26	29	31	31	35
Indoor sound pressure (Lo) (5)	dB(A)	22	23	25	27	29	23	25	27	27	29
Indoor sound power (Hi)	dB(A)	53	53	56	58	62	53	56	58	58	62
Indoor sound power (Med)	dB(A)	50	49	52	54	58	49	52	54	54	58
Indoor sound power (Lo)	dB(A)	45	46	48	50	52	46	48	50	50	52
Indoor dimension (Height)	mm	250	250	250	250	250	250	250	250	250	250
Indoor dimension (Width)	mm	800	1.000	1.400	1.400	1.400	1.000	1.400	1.400	1.400	1.400
Indoor dimension (Depth)	mm	730	730	730	730	730	730	730	730	730	730
Indoor net weight	kg	25	30	39	39	39	30	39	39	39	39
nanoe X Generator		Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit		U-36PZH3E5	U-71PZH4E5	U-100PZH4E5	U-125PZH4E5	U-140PZH4E5	U-71PZH4E8	U-100PZH4E8	U-125PZH3E8	U-125PZH4E8	U-140PZH4E8
Outdoor power source	V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Current in cooling (1p 220V / 3p 380)	A	4,20	9,20	11,50	16,80	19,40	3,05	3,85	5,60	5,65	6,55
Current in cooling (1p 230V / 3p 400)	A	4,00	8,80	11,00	16,00	18,50	2,90	3,70	5,30	5,40	6,20
Current in cooling (1p 240V / 3p 415)	A	3,85	8,45	10,50	15,40	17,70	2,80	3,50	5,15	5,20	6,00
Current in heating (1p 220V / 3p 380)	A	4,70	9,40	13,60	19,10	22,70	3,15	4,65	6,45	6,50	7,75
Current in heating (1p 230V / 3p 400)	A	4,50	9,00	13,10	18,20	21,70	3,00	4,40	6,10	6,20	7,40
Current in heating (1p 240V / 3p 415)	A	4,30	8,60	12,60	17,50	20,80	2,90	4,20	5,90	5,95	7,05
Outdoor air flow (Cool)	m³/min	34,1	62,0	76,0	86,0	89,0	62,0	76,0	125,0	86,0	89,0
Outdoor air flow (Heat)	m³/min	36,4	66,0	70,0	78,0	83,0	66,0	70,0	112,0	78,0	83,0
Outdoor sound pressure (Cool -Hi)	dB(A)	43	48	52	55	56	48	52	53	55	56
Outdoor sound pressure (Heat -Hi)	dB(A)	44	50	52	55	56	50	52	53	55	56
Outdoor sound power (Cool -Hi)	dB(A)	62	65	69	73	74	65	69	70	73	74
Outdoor sound power (Heat -Hi)	dB(A)	64	67	69	73	74	67	69	70	73	74
Outdoor dimension (Height)	mm	695	996	996	996	996	996	996	1.416	996	996

PACi NX Series Elite 4 way 60x60 cassette Inverter+ - R32

PACi NX Series Elite adaptive ducted unit Inverter+ - R32		SINGLE PHASE					THREE PHASE				
		3.6 kW	7.1 kW	10.0 kW	12.5 kW	14.0 kW	7.1 kW	10.0 kW	12.5 kW	12.5 kW	14.0 kW
Outdoor dimension (Width)	mm	875	980	980	980	980	980	980	940	980	980
Outdoor dimension (Depth)	mm	320	370	370	370	370	370	370	340	370	370
Outdoor net weight	kg	42	66	84	86	86	66	82	98	84	84
Pipe diameter (Liquid)	Inch (mm)	1/4(6,35)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
Pipe diameter (Gas)	Inch (mm)	1/2(12,70)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range	m	3 ~ 40	5 ~ 60	5 ~ 100	5 ~ 100	5 ~ 100	5 ~ 60	5 ~ 100	5 ~ 85	5 ~ 100	5 ~ 100
Elevation difference (in/out) (8)	m	15 / 30 (8)	15 / 30	15 / 30	15 / 30	15 / 30	15 / 30	15 / 30	15 / 30 (9)	15 / 30	15 / 30
Pipe length for additional gas	m	30	30	30	30	30	30	30	30	30	30
Additional gas amount	g/m	15	30	40	40	40	30	40	45	40	40
Refrigerant (R32) / CO2 Eq.	kg / T	1,13 / 0,76	1,95 / 1,32	2,70 / 1,82	3,00 / 2,03	3,00 / 2,03	1,95 / 1,32	2,70 / 1,82	3,05 / 2,06	3,00 / 2,03	3,00 / 2,03
Operating range (Cool - Min)	°C	-15	-15	-20 (9)	-20 (9)	-20 (9)	-15	-20 (9)	-20	-20 (9)	-20 (9)
Operating range (Cool - Max)	°C	+46	+52	+52	+52	+52	+52	+52	+48 (10)	+52	+52
Operating range (Heat - Min)	°C	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20
Operating range (Heat - Max)	°C	+24	+24	+24	+24	+24	+24	+24	+24	+24	+24

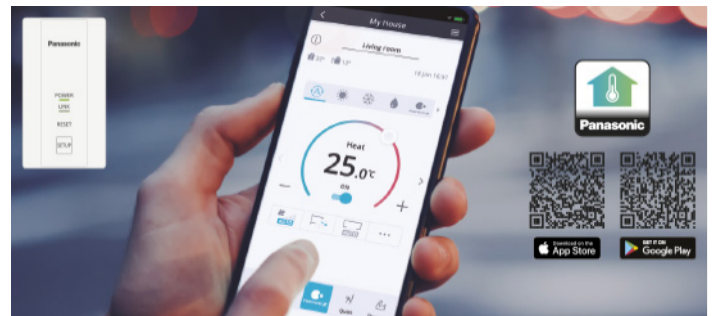
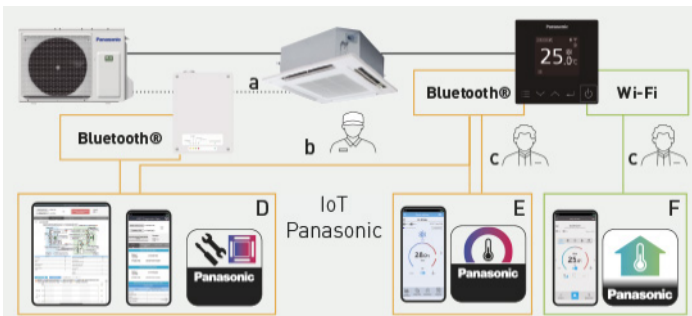
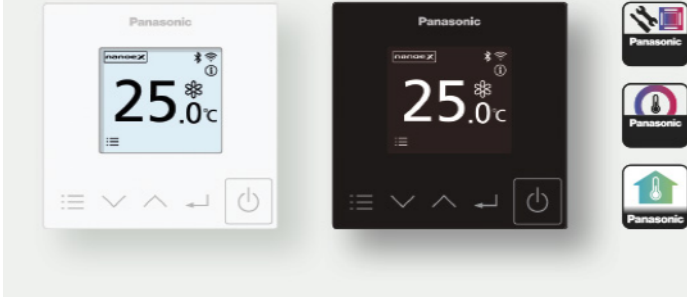
Smart & intuitive controls for PACi NX Series



CONEX provides comfort and control for varying user needs

CONEX with IoT integration. Not only detailed operation and maintenance settings are possible with the smartphone or tablet, but also service and diagnostic functions.

1. **Intuitive control** with stylish design
2. **Control comfort** with your smartphone
3. **Easy maintenance** with service support app



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.

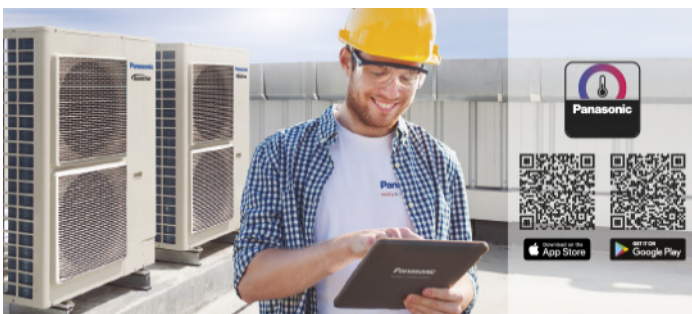
a: Service checker interface - **b:** Panasonic service and installer - **c:** End user - **D:** Panasonic H&C Diagnosis App - **E:** Panasonic H&C Control App **F:** Panasonic Comfort Cloud App

Commercial Wi-Fi Adaptor for Panasonic Comfort Cloud App

- For end user · Connection via Wi-Fi
- Commercial Wi-Fi Adaptor (CZ-CAPWFC1) required

Features: · Remote control and monitoring 24/7/365 · Scheduling · Error alerts · From 1 to 200 units · Voice control compatible · Multi user · Easy scheduling · Energy monitor · Error codes

* CZ-RTC6WBLW or CZ-RTC6BLW required.



Panasonic H&C Diagnosis App

- Tool for diagnosis and troubleshooting
- For service and installer · Connection via Bluetooth®

Features: · AC control (system view, refrigerant circuit view) · Real-time data (indoor/outdoor unit) · Refrigerant cycle diagram and graph · Data recording · History data · Error code tables

* 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.



Panasonic H&C Control App

- For end user, service and installer · Connection via Bluetooth®

Detailed operation setting features: · Basic settings · Weekly timer · All energy saving functions · Key lock · Ventilation fan control etc

Detailed maintenance setting features: · Alarm display and history · Filter sign · Test run · Sensor value monitor etc

* CZ-RTC6WBL, CZ-RTC6BL, CZ-RTC6WBLW or CZ-RTC6BLW required.

Accessories



Smart multi-site control solution

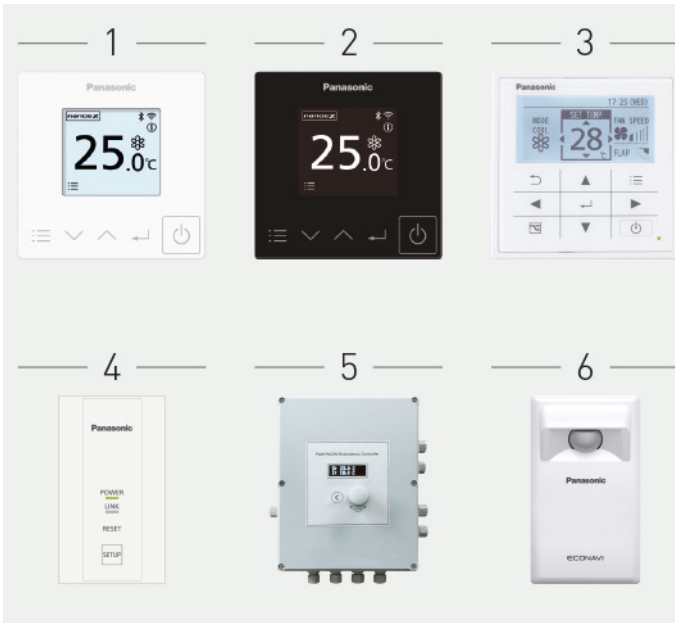
Panasonic AC Smart and Service Cloud is the modern and scalable energy management system for your heating and cooling solutions. One screen with endless possibilities.

AC Smart Cloud for owner and facility manager.

- Multi-site monitoring · Schedule setting · Powerful statistics for energy savings · Maintenance notification

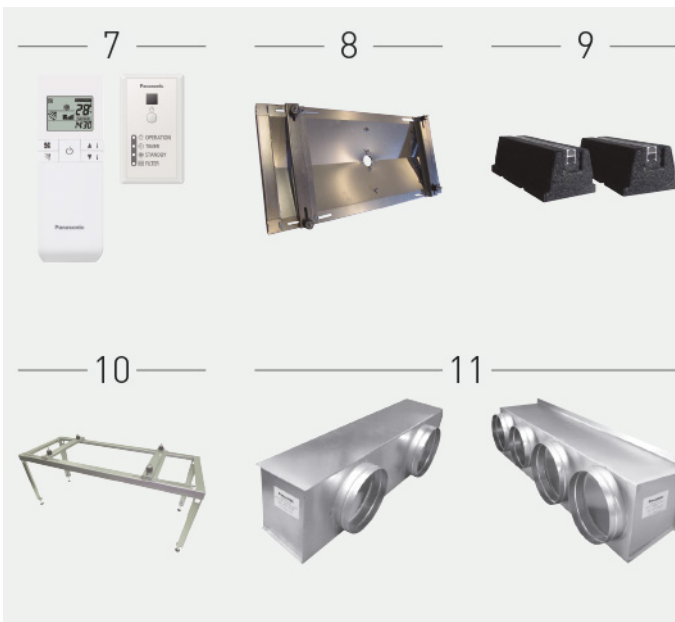
AC Service Cloud for service and installer.

- All sites at a glance with alarm status · Self diagnosis function · Maintenance planning · Service checker parameters available for the analysis



Accessories

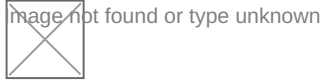
1. CZ-RTC6W	CONEX wired remote controller (non-wireless), white
1. CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
1. CZ-RTC6WBLW	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
2. CZ-RTC6	CONEX wired remote controller (non-wireless), black
2. CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
2. CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
3. CZ-RTC5B	Wired remote controller with Econavi function and datanavi
4. CZ-CAPWFC1	Commercial Wi-Fi Adaptor
5. PAW-PACR4	Interface to run up to 4 indoor unit groups on backup and alternative run
6. CZ-CENSC1	Econavi energy saving sensor



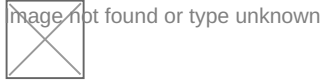
Accessories

7. CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
8. PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
9. PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
10. PAW-GRDSTD40	Outdoor elevation platform 400x900x400 mm
11. CZ-56DAF2	Air outlet plenum for S-3650PF3E
11. CZ-90DAF2	Air outlet plenum for S-6071PF3E
11. CZ-160DAF2	Air outlet plenum for S-1014PF3E

Dimensions



Dimensions



Wiring diagrams

