Panasonic

New PACi NX Series
· R32 Refrigerant

New PACi NX Series.
The next generation is here.

- PACi NX Series Standard range, for absolute ease of refurbishment
- Flexible control option with IoT integration
- PACi NX Series includes nanoe™ X function as standard
- New Adaptive Ducted PF3 has been completely re-designed to have better flexibility.
- 90x90 Cassettes have been developed to satisfy today's customer needs.

R32
NEW REFRIGERANT GAS

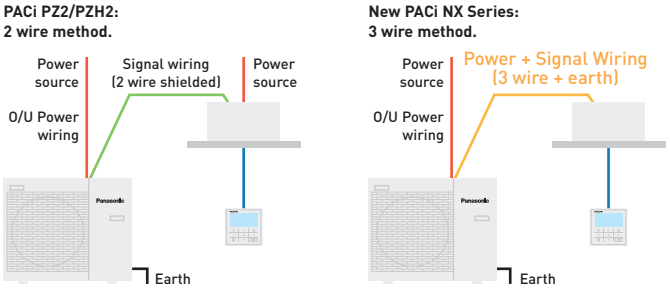
heating & cooling solutions

New PACi NX Series.
The next generation is here.

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

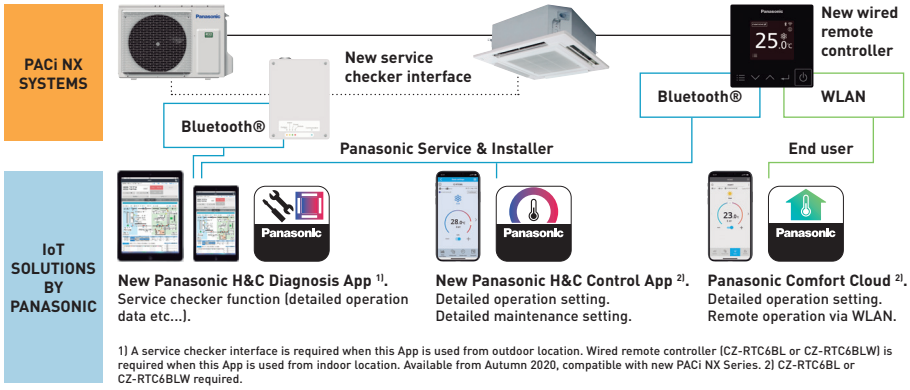
1 PACi NX Series - Standard range, for absolute ease of refurbishment

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



2 Flexible control option with IoT integration

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

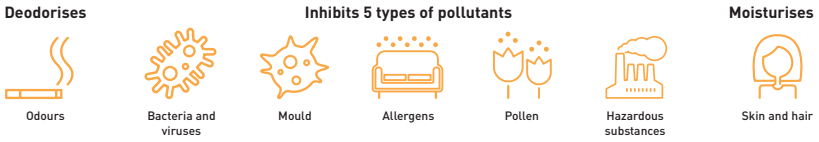


1) A service checker interface is required when this App is used from outdoor location. Wired remote controller (CZ-RTC6BL or CZ-RTC6BLW) is required when this App is used from indoor location. Available from Autumn 2020, compatible with new PACi NX Series. 2) CZ-RTC6BL or CZ-RTC6BLW required.

3 Let Panasonic take care of indoor air quality

nanoe™ X inhibits a wide variety of bacteria, viruses and pollutants, and can deodorise the environment. This unique technology is equipped to provide better air quality whether residential or commercial.

7 effects of nanoe™ X – Panasonic unique technology.



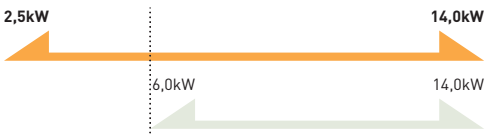
PACi NX Series – Standard range. From 2,5* to 14,0 kW

The standard range has been extended by adding to the line-up; 2.5, 3.6 and 5.0 kW.
This line-up gives more flexibility to design projects keeping a good balance of system cost and energy efficiency.

Capacity	kW	3.6	5.0	6.0	7.1	10.0	12.5	14.0
4 Way Cassette (PU3)	SEER	A++	A++	A++	A++	A++	—	—
	SCOP	A++	A++	A++	A++	A+	—	—
Adaptive Ducted (PF3)	SEER	A+	A++	A++	A+	A+	—	—
	SCOP	A+	A+	A+	A+	A	—	—

New PACi NX Standard range

Conventional Standard range



- Maximum SEER: A++, SCOP: A++
- R32 refrigerant
- Twin connection possible

* 2.5 kW mini cassette model will be available from Autumn 2020.

New wired remote controller - CZ-RTC6 / CZ-RTC6BL / CZ-RTC6BLW

- Intuitive control with stylish design profile
- Comfort control with your smartphone for multi-users
- Easy maintenance with service support App

Wired remote controller line-up		WLAN	Bluetooth®
CZ-RTC6	Non-wireless	—	—
CZ-RTC6BL	Bluetooth®	—	✔
CZ-RTC6BLW*	WLAN & Bluetooth®	✔	✔

* Available from Autumn 2020, compatible with new PACi NX Series.

Panasonic Comfort Cloud

Panasonic H&C Control App

Panasonic H&C Diagnosis App

New service checker interface

The new service checker interface* provides easy access to service parameters and service checker data via Bluetooth®.

* Available as a spare part, compatible with new PACi NX Series.

Panasonic H&C Diagnosis App

New Adaptive Ducted unit - PF3

New Adaptive Ducted PF3 has been completely re-designed to have better flexibility. The vertical installation is newly available with powerful ESP (maximum 150Pa).

1 Highly flexible installation

· 2 installation possibilities (horizontal / vertical)
· Maximum external static pressure: 150Pa
· Selectable inlet air position (rear / bottom entry)
· Improved drain pan design suitable for both horizontal / vertical installation
· Drain pump included*

* Drain pump operation only available in horizontal application.

2 High seasonal performance with slim body

· Maximum SEER / SCOP: A++ / A+
· Slim height 250 mm in response to market demand where ceiling space is limited
· Light weight from 25 to 39kg

3 Comfort operation

· Super quiet operation, minimum 22dBA*
· nanoe™ X for better indoor air quality

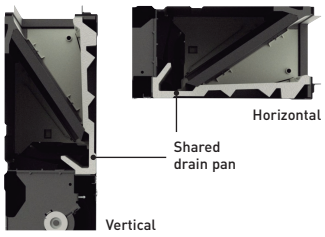
* 3,6 kW model and when operating with ESP 50Pa in low fan mode.

2 installation possibilities (horizontal / vertical)

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

Improved drain pan design

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



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.

Maximum SEER / SCOP

Total 7 capacity ranges from 3.6 – 14.0 kW.

Capacity	kW	3.6	5.0	6.0	7.1	10.0	12.5	14.0
PACi NX Series	SEER	A+	A++	A++	A+	A+	—	—
Standard	SCOP	A+	A+	A+	A+	A	—	—

Compact body

· With only 250 mm height
· Light unit from 25 – 39 kg

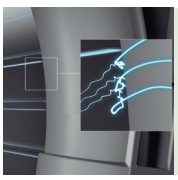
Conventional model	New Adaptive Ducted
33kg	**30kg**
290 mm	**250 mm**

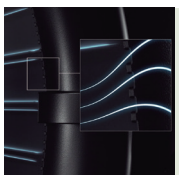
New Adaptive Ducted

30Kg

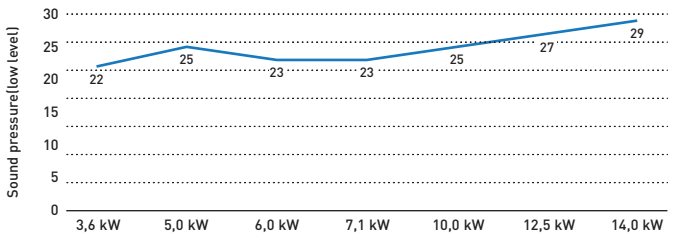
Super quiet operation minimum 22dBA

Improved proprietary casing design achieves smoother air flow for lower noise operation, compared to conventional model.


Conventional casing


New casing

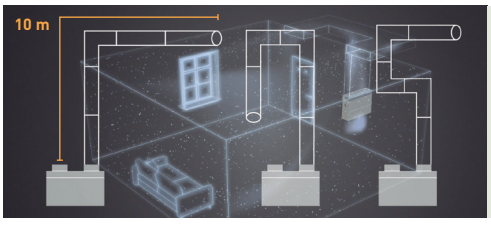
Sound pressure dB(A).



* Silent operation in full capacity range.

Better indoor air quality with nanoe™ X

The performance of nanoe™ X is maintained, even with 10 m long duct*.
Effect of improved air quality is enough to adapt to multi duct shapes depending on the projects.



As the experiments demonstrate; even with a duct length of 10 m, effectiveness of nanoe™ X is maintained.

Bend once Bend twice Bend three times

Generation PACi
90x90 Cassette - PU3/PU2

A modern flat panel design to blend into any space. These Cassettes have been developed to satisfy today's customer needs such as high energy saving, comfort and healthier air.

PACi 90x90 Cassette

- High seasonal efficiency, maximum SEER/SCOP= A+++/A+++[1)]
- Advanced comfort and energy saving by Econavi sensor
- nanoe™ X Technology that improves indoor air quality as standard[2)]
- Super quiet operation from 27dB(A)

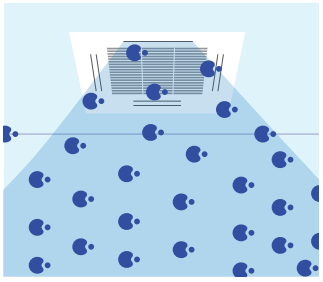
1) PU2 3,6 kW Elite model. 2) PU3 Series: Standard. PU2 Series: optional (CZ-CNEXU1 is required).

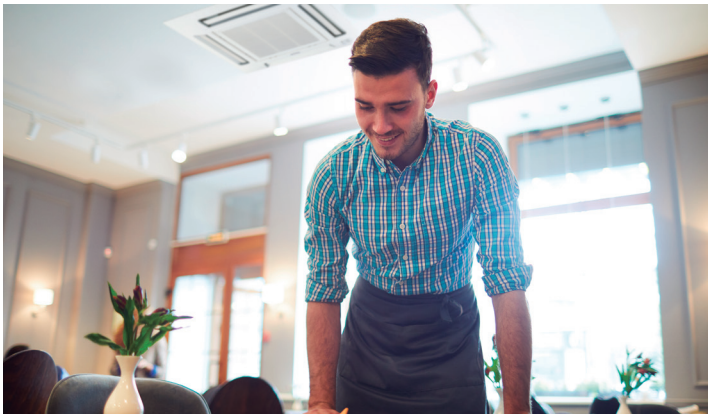
These Cassettes offer upgraded Econavi and nanoe™ X Technology for making application space more comfortable, healthy and efficient.

Always fresh and clean air with nanoe™ X

The 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.

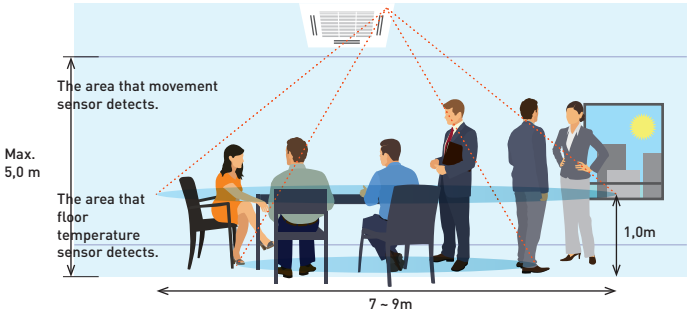
* nanoe X Generator Mark 1.
PU3 Series: Controllers (CZ-RTC5B or CZ-RTC6/BL) are required.
PU2 Series: An optional accessory (CZ-CNEXU1) and controllers (CZ-RTC5B or CZ-RTC6/BL) are required.



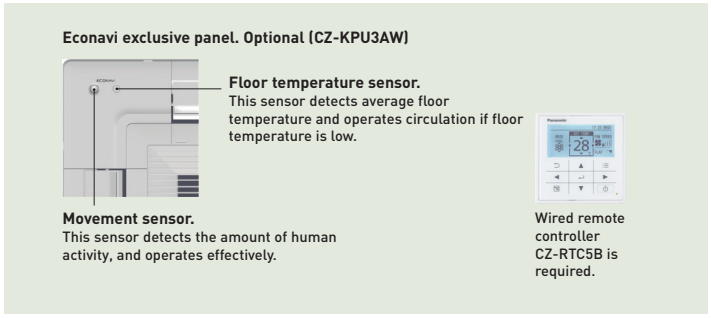


Optional Econavi intelligent sensor

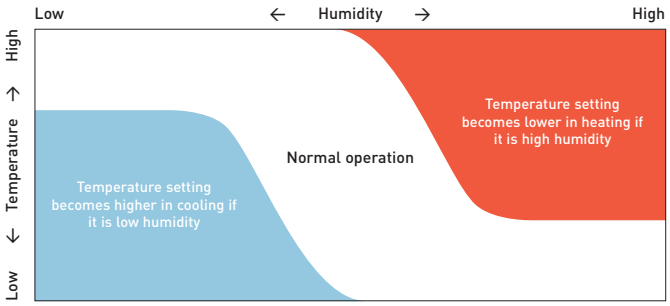
Human activity sensor and floor temperature sensor can reduce waste energy, by optimising air conditioner operation.



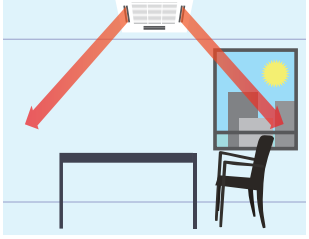
Advanced Econavi functions.
2 sensors (movement and floor temperature) can provide a reduction in wasted energy by means of effective control. Floor temperature can be detected with a ceiling height of 5 m.



Humidity sensor.
Humidity sensor has air suction function, and realises comfort and energy saving based on temperature and humidity.



Group control, circulation function.
Circulating operation is activated when a room is unoccupied to evenly distribute air and minimize temperature gaps in both heating and cooling operation.



Circulation by Detecting no movement (10 min.)

Indirect air flow by detecting movement.

New PACi NX Series Standard Adaptive Ducted Unit Inverter+ • R32 refrigerant

nanoe™ X as a standard.

CZ-RTC5B

CZ-RTC6
CZ-RTC6BL
CZ-RTC6BLW
Optional Controller.
Wired remote controller.

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

CZ-CENSC1
Optional Econavi Sensor.

			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)	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	3.78	2.78	3.54	3.18	3.66 (5.36 - 2.81)	3.52 (5.33 - 2.80)	3.18 (5.32 - 2.70)
SEER [2]			**6.0 A+**	**6.5 A++**	**6.4 A++**	**6.0 A+**	**5.6 A+**	**5.6**	**5.4**
Pdesign		kW	3.4	5.0	5.7	6.8	10.0	12.5	14.0
Input power cooling	Nominal (Min - Max)	kW	0.9	1.8	1.61	2.14	2.73 (0.56 - 4.09)	3.55 (0.60 - 4.82)	4.40 (0.62 - 5.56)
Annual energy consumption [3]		kWh/a	198	267	310	391	625	787	911
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)	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	4.15	3.62	4.04	4.00	4.31 (5.36 - 3.51)	4.02 (5.50 - 3.45)	3.79 (5.48 - 3.13)
SCOP [2]			**4.0 A+**	**4.0 A+**	**4.4 A+**	**4.1 A+**	**3.8 A**	**3.6**	**3.5**
Pdesign at -10 °C		kW	2.4	3.8	4.4	4.7	10.0	12.5	13.6
Input power heating	Nominal (Min - Max)	kW	0.82	1.38	1.41	1.7	2.32 (0.56 - 3.99)	3.11 (0.60 - 4.35)	3.69 (0.62 - 5.12)
Annual energy consumption [3]		kWh/a	839	1303	1376	1591	3684	4848	5379
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 volume	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	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-60PZ3E5**	**U-71PZ3E5**	**U-100PZ3E5**	**U-125PZ3E5**	**U-140PZ3E5**
Power source		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	A	4.15-4.00-3.85	8.35-8.00-7.65	7.45-7.15-6.85	9.95-9.50-9.10	12.10-11.50-11.10	16.30-15.60-15.00	20.40-19.50-18.70
	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	9.25 - 8.85 - 8.50	13.10-12.50-12.00	15.60-14.90-14.30
Air volume	Cool / Heat	m³/min	33.6/34.0	32.7/31.9	42.6/41.5	44.7/45.9	76/70	86/78	89/83
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	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	90	94	94
Piping connections	Liquid pipe	Inch (mm)	1/4 (Ø6.35)	1/4 (Ø6.35)	1/4 (Ø6.35) [6]	1/4 (Ø6.35) [6]	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
	Gas pipe	Inch (mm)	1/2 (Ø12.7)	1/2 (Ø12.7)	1/2 (Ø12.7) [7]	5/8 (Ø15.88)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)
Pipe length range		m	3 - 15	3 - 20	3 - 30	3 - 40	5 ~ 50	5 ~ 50	5 ~ 50
Elevation difference (in/out) [8]		m	15 / 15 [9]	15 / 15 [9]	15 / 15 [9]	20 / 20 [9]	30	30	30
Pipe length for additional gas		m	7.5	7.5	7.5	10	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	2.60 / 1.76	2.98 / 2.01	2.98 / 2.01
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

Tentative data

Accessories	
CZ-RTC6	NEW Wired remote controller (non-wireless)
CZ-RTC6BL	NEW Wired remote controller with Bluetooth®
CZ-RTC6BLW	NEW Wired remote controller with WLAN & Bluetooth® (available in Autumn 2020)
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRC3	Infrared remote controller
CZ-CAPWFC1	Commercial WLAN Adaptor

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

New design duct range PF3 for R32 PACi NX Series

2 installation possibilities (horizontal / vertical) with high ESP 150Pa allows flexible installation.

Technical focus

- 2 installation possibilities (horizontal / vertical)
- Maximum External Static pressure: 150Pa
- 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 OH radicals / sec) as standard for the long duct piping case*
- New wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®

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

			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	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	3.66 (5.36 - 2.81)	3.52 (5.33 - 2.80)	3.18 (5.32 - 2.70)
SEER [2]			**5.6 A+**	**5.5**	**5.4**
Pdesign		kW	10.0	12.5	14.0
Input power cooling	Nominal (Min - Max)	kW	2.73 (0.56 - 4.09)	3.55 (0.60 - 4.82)	4.40 (0.62 - 5.56)
Annual energy consumption [3]		kWh/a	625	790	912
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	4.31 (5.36 - 3.51)	4.02 (5.50 - 3.45)	3.79 (5.48 - 3.13)
SCOP [2]			**3.8 A**	**3.60**	**3.5**
Pdesign at -10 °C		kW	10.0	12.5	13.6
Input power heating	Nominal (Min - Max)	kW	2.32 (0.56 - 3.99)	3.11 (0.60 - 4.35)	3.69 (0.62 - 5.12)
Annual energy consumption [3]		kWh/a	3684	4848	5379
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 volume	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	56 / 52 / 48	58 / 54 / 50	62 / 58 / 52
Dimension	H x W x D	mm	250 x 1400 x 730	250 x 1400 x 730	250 x 1400 x 730
Net weight		kg	39	39	39
nanoe X Generator			Mark 2	Mark 2	Mark 2
Outdoor unit			**U-100PZ3E8**	**U-125PZ3E8**	**U-140PZ3E8**
Power source		V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Current	Cool	A	4.10 - 3.90 - 3.75	5.45 - 5.20 - 5.00	6.80 - 6.50 - 6.25
	Heat	A	3.15 - 3.00 - 2.90	4.40 - 4.15 - 4.00	5.25 - 4.95 - 4.80
Air volume	Cool / Heat	m³/min	76 / 70	86 / 78	89 / 83
Sound pressure	Cool / Heat (Hi)	dB(A)	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB	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	90	94	94
Piping connections	Liquid pipe	Inch (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
	Gas pipe	Inch (mm)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)
Pipe length range		m	5 ~ 50	5 ~ 50	5 ~ 50
Elevation difference (in/out) [8]		m	30	30	30
Pipe length for additional gas		m	30	30	30
Additional gas amount		g/m	45	45	45
Refrigerant (R32) / CO_2 Eq.		kg / T	2.60 / 1.76	2.98 / 2.01	2.98 / 2.01
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) Energy Label Scale from A+++ to D. For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) Medium External static pressure setting from factory. 5) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) Connect the liquid socket tube (Ø6,35-Ø9,52) to the liquid tubing side indoor unit. 7) Connect the gas socket tube (Ø12,70-Ø15,88) to the gas tubing side indoor unit. 8) When installing the outdoor unit at a higher position than the indoor unit. 9) Outdoor unit located lower / outdoor unit located higher. * Recommended fuse for the indoor 3 A. ** Above values are in the case of standard installation(horizontal installation in the celling, rear side air intake) and nanoe™ X OFF.

SEER: For S-3650PF3E + U-50PZ3E5. SCOP: For S-6071PF3E + U-60PZ3E5. SUPER QUIET: For S-3650PF3E + U-36PZ3E5. INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

New PACi NX Series Standard 4 Way 90x90 Cassette Inverter+
• R32 refrigerant

New 4 Way 90x90 Cassette range PU3 for R32 PACi NX Series

Powerful turbo fan and intelligent Econavi sensor make sure high energy efficiency and nanoe™ X which is equipped as standard provides an exceptional level of comfort.

CZ-RTC5B

CZ-KPU3W
Standard panel.

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

nanoe™ X as a standard.

CZ-RTC6
CZ-RTC6BL
CZ-RTC6BLW
Optional Controller.
Wired remote controller.

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

			Single Phase						
			3.6 kW	5.0 kW	6.0 kW	7.1 kW	10.0 kW	12.5 kW	14.0 kW
Kit			**KIT-36PU3Z5**	**KIT-50PU3Z5**	**KIT-60PU3Z5**	**KIT-71PU3Z5**	**KIT-100PU3Z5**	**KIT-125PU3Z5**	**KIT-140PU3Z5**
Remote controller			**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**
Cooling capacity	Nominal (Min - Max)	kW	3.6 (1.5 - 4.0)	5.0 (1.5 - 5.6)	6.0 (2.0 - 7.1)	7.1 (2.6 - 7.7)	10.0 (3.0 - 11.5)	12.5 (3.2 - 13.5)	14.0 (3.3 - 15.0)
EER [1]	Nominal (Min - Max)	W/W	4.34	3.91	3.73	3.27	3.82 (5.36 - 2.88)	3.58 (5.33 - 2.81)	3.23 (5.32 - 2.73)
SEER [2]			**8.1 A++**	**8.0 A++**	**7.8 A++**	**6.8 A++**	**6.8 A++**	**6.8**	**6.5**
Pdesign		kW	3.6	5.0	6.0	7.1	10.0	12.5	14.0
Input power cooling	Nominal (Min - Max)	kW	0.83	1.28	1.61	2.17	2.62 (0.6 - 4.0)	3.49 (0.6 - 4.8)	4.34 (0.6 - 5.5)
Annual energy consumption [3]		kWh/a	156	219	269	365	515	—	—
Heating capacity	Nominal (Min - Max)	kW	3.6 (1.5 - 4.6)	5.0 (1.5 - 6.4)	6.0 (1.8 - 7.0)	7.1 (2.1 - 8.1)	10.0 (3.0 - 14.0)	12.5 (3.3 - 15.0)	14.0 (3.4 - 16.0)
COP [1]	Nominal (Min - Max)	W/W	5.07	4.63	4.48	4.23	4.93 (3.59 - 5.36)	4.43 (3.57 - 5.50)	4.18 (3.33 - 5.48)
SCOP [2]			**4.8 A++**	**4.7 A++**	**4.9 A++**	**4.6 A++**	**4.4 A+**	**4.0**	**3.9**
Pdesign at -10 °C		kW	2.8	4.0	4.6	5.2	10.0	12.5	14.0
Input power heating	Nominal (Min - Max)	kW	0.71	1.08	1.34	1.68	2.03 (0.56 - 3.90)	2.82 (0.60 - 4.20)	3.35 (0.62 - 4.80)
Annual energy consumption [3]		kWh/a	817	1191	1314	1583	3182	—	—
Indoor unit			**S-3650PU3E**	**S-3650PU3E**	**S-6071PU3E**	**S-6071PU3E**	**S-1014PU3E**	**S-1014PU3E**	**S-1014PU3E**
Air volume	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	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-60PZ3E5**	**U-71PZ3E5**	**U-100PZ3E5**	**U-125PZ3E5**	**U-140PZ3E5**
Power source		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	A	3.85 - 3.70 - 3.55	5.95 - 5.70 - 5.45	7.45 - 7.15 - 6.85	10.00 - 9.65 - 9.25	12.10 - 11.50 - 11.10	16.30 - 15.60 - 15.00	20.40 - 19.50 - 18.70
	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	9.25 - 8.85 - 8.50	13.10 - 12.50 - 12.00	15.60 - 14.90 - 14.30
Air volume	Cool / Heat	m³/min	33.6 / 34.0	32.7 / 31.9	42.6 / 41.5	44.7 / 45.9	76 / 70	86 / 78	89 / 83
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	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	90	94	94
Piping connections	Liquid pipe	Inch (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35) [5]	1/4 (6.35) [5]	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
	Gas pipe	Inch (mm)	1/2 (12.70)	1/2 (12.70)	1/2 (12.70) [6]	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)
Pipe length range		m	3 ~ 15	3 ~ 20	3 ~ 30	3 ~ 40	5 ~ 50	5 ~ 50	5 ~ 50
Elevation difference (in/out) [7]		m	15 / 15 [8]	15 / 15 [8]	15 / 15 [8]	20 / 20 [8]	30	30	30
Pipe length for additional gas		m	7.5	7.5	7.5	10	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	2.60 / 1.76	2.98 / 2.01	2.98 / 2.01
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

Accessories	
CZ-RTC6	NEW Wired remote controller (non-wireless)
CZ-RTC6BL	NEW Wired remote controller with Bluetooth®
CZ-RTC6BLW	NEW Wired remote controller with WLAN & Bluetooth® (available in Autumn 2020)
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRU3W	Infrared remote controller

Accessories	
CZ-CAPWFC1	Commercial WLAN Adaptor
CZ-KPU3AW	Econavi exclusive panel
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

Technical focus

- High performance turbo fan, path system for heat exchanger
- Econavi: An optional Intelligent sensor to reduce waste of energy
- nanoe™ X (Generator Mark 1= 4,8 trillion OH radicals/ sec) as standard for better indoor air quality, also possible to clean inside of the indoor unit with nanoe™ X ON + Dry operation
- Lower noise in slow fan operation
- Light weight, easy piping
- Drain pump included
- New wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®

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

Group control, circulation function

Circulating operation is activated when a room is unoccupied to evenly distribute air and minimize temperature gaps in both heating and cooling operation.

			Three Phase		
			10.0 kW	12.5 kW	14.0 kW
Kit			**KIT-100PU3Z8**	**KIT-125PU3Z8**	**KIT-140PU3Z8**
Remote controller			**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**
Cooling capacity	Nominal (Min - Max)	kW	10.0 (3.0 - 11.5)	12.5 (3.2 - 13.5)	14.0 (3.3 - 15.0)
EER [1]	Nominal (Min - Max)	W/W	3.82 (5.36 - 2.88)	3.58 (5.33 - 2.81)	3.23 (5.32 - 2.73)
SEER [2]			**6.7 A++**	**6.7**	**6.5**
Pdesign		kW	10.0	12.5	14.0
Input power cooling	Nominal (Min - Max)	kW	2.62 (0.60 - 4.00)	3.49 (0.60 - 4.80)	4.34 (0.60 - 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 [2]			**4.4 A+**	**4.0**	**3.9**
Pdesign at -10 °C		kW	10.0	12.5	14.0
Input power heating	Nominal (Min - Max)	kW	2.03 (0.56 - 3.90)	2.82 (0.60 - 4.20)	3.35 (0.62 - 4.80)
Annual energy consumption [3]		kWh/a	3182	—	—
Indoor unit			**S-1014PU3E**	**S-1014PU3E**	**S-1014PU3E**
Air volume	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	60 / 53 / 47	61 / 54 / 48	62 / 55 / 49
Dimension	Indoor (H x W x D)	mm	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Panel (H x W x D)	mm	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950
Net weight	Indoor / Panel	kg	25 / 5	25 / 5	25 / 5
nanoe X Generator			Mark 1	Mark 1	Mark 1
Outdoor unit			**U-100PZ3E8**	**U-125PZ3E8**	**U-140PZ3E8**
Power source		V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Current	Cool	A	4.10 - 3.90 - 3.75	5.45 - 5.20 - 5.00	6.80 - 6.50 - 6.25
	Heat	A	3.15 - 3.00 - 2.90	4.40 - 4.15 - 4.00	5.25 - 4.95 - 4.80
Air volume	Cool / Heat	m³/min	76 / 70	86 / 78	89 / 83
Sound pressure	Cool / Heat (Hi)	dB(A)	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB	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	90	94	94
Piping connections	Liquid pipe	Inch (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
	Gas pipe	Inch (mm)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)
Pipe length range		m	5 ~ 50	5 ~ 50	5 ~ 50
Elevation difference (in/out) [7]		m	30	30	30
Pipe length for additional gas		m	30	30	30
Additional gas amount		g/m	45	45	45
Refrigerant (R32) / CO_2 Eq.		kg / T	2.60 / 1.76	2.98 / 2.01	2.98 / 2.01
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) Energy Label Scale from A+++ to D. For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the SEER and SCOP is calculated based on values of EU/2281/2016. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) Connect the liquid socket tube (Ø6,35-Ø9,52) to the liquid tubing side indoor unit. 6) Connect the gas socket tube (Ø12,70-Ø15,88) to the gas tubing side indoor unit. 7) When installing the outdoor unit at a higher position than the indoor unit. 8) Outdoor unit located lower / outdoor unit located higher. * Recommended fuse for the indoor 3 A. ** Above values are in the case of nanoe™ X OFF.

SEER: For S-3650PU3E + U-36PZ3E5. SCOP: For S-3650PU3E + U-60PZ3E5. ECONAVI and INTERNET CONTROL: Optional.
Compatible with all Panasonic connectivity solutions. For detailed information go to the Control Systems section.

Range of PACi NX units R32

PACi NX Series indoor units		3.5 ~ 3.6 kW	5.0 kW	6.0 kW	7.1 kW	10.0 kW	12.5 kW	14.0 kW
NEW 4 Way 90x90 Cassette Inverter+ • **R32 refrigerant**		S-3650PU3E	S-3650PU3E	S-6071PU3E	S-6071PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E
NEW Adaptive Ducted Unit Inverter+ • **R32 refrigerant**		S-3650PF3E	S-3650PF3E	S-6071PF3E	S-6071PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E

PACi NX Series outdoor units		3.6 kW	5.0 kW	6.0 kW	7.1 kW	10.0 kW	12.5 kW	14.0 kW
NEW Standard • **R32 refrigerant**	 U-36 / 50 U-60 / 71 U-100 / 140	U-36PZ3E5	U-50PZ3E5	U-60PZ3E5	U-71PZ3E5	U-100PZ3E5 U-100PZ3E8	U-125PZ3E5 U-125PZ3E8	U-140PZ3E5 U-140PZ3E8

High performance and healthy air

nanoe™ X. Quality air for life. Panasonic's latest innovation nanoe™ X promotes well-being by inhibiting growth of certain harmful viruses and bacteria, as well as deodorising your home.

FILTER INCLUDED
Filter Included.

20dB(A)
With Super Quiet technology our devices are quieter than a library (30 dB(A)).

DC FAN
DC fan.
Safe and precise.

-10°C COOLING MODE
Down to -10 °C in cooling mode.
The air conditioner works in cooling mode when the outdoor temperature of -10 °C.

-15°C HEATING MODE
Down to -15 °C in heating mode.
The air conditioner works in heat pump mode when the outdoor temperature is as low as -15 °C.

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

Energy saving

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

A++ 6,5 SEER
Exceptional seasonal cooling efficiency based on the ErP regulation. Higher SEER ratings mean greater efficiency - year-round cooling savings!

A++ 4,9 SCOP
Exceptional seasonal heating efficiency based on the ErP regulation.
Higher SCOP ratings mean greater efficiency - year-round heating savings!

28% ECONAVI
Intelligent Human Activity Sensor and Sunlight Sensor technologies that can detect and reduce waste energy, by optimising air conditioner operation according to room conditions. With just one touch of a button, you can save energy.

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

R2 ROTARY COMPRESSOR
Panasonic R2 Rotary Compressor. Designed to withstand extreme conditions, it delivers high performance and efficiency.

High connectivity

OPTIONAL WLAN
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
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.

Panasonic

To find out how Panasonic cares for you, log on to www.aircon.panasonic.eu/IE_en/
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