PACi

PACi NX Series Standard 4 way 90x90 cassette

Bringing nature's balance indoors

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

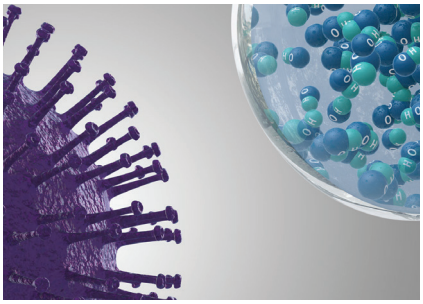
Abundant in nature, hydroxyl radicals (also known as OH radicals) have the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise. nanoe™ X technology can bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner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

A naturally occurring process

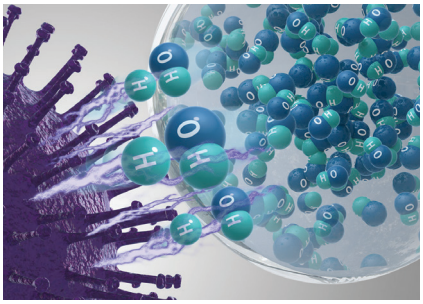
Hydroxyl radicals are unstable molecules looking to react with other elements like hydrogen, capturing it. Thanks to this reaction, hydroxyl radicals have the potential to inhibit the growth of pollutants such as bacteria, viruses, moulds, and odours, breaking them down and neutralising the unpleasant effects. This naturally occurring process has major benefits to improve indoor environments.

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

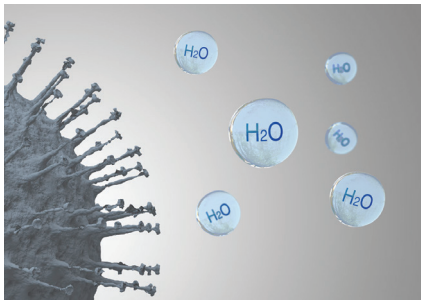
Thanks to the nanoe™ X properties, several types of pollutants can be inhibited such as certain types of bacteria, viruses, mould, allergens, pollen and certain hazardous substances.



1 | nanoe™ X reliably reaches pollutants.



2 | Hydroxyl radicals denature pollutants' proteins.



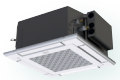
3 | Pollutants activity is inhibited.

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

Built-in nanoe X Generator Mark 1.

4 way 90x90 cassette.
S-****PU3E.
7 capacities: 3,6 - 14,0 kW.

Built-in nanoe X Generator Mark 2.



4 way 60x60 cassette.
S-**PY3E.
4 capacities: 2,5 - 6,0 kW.

Adaptive ducted unit.
S-****PF3E.
7 capacities: 3,6 - 14,0 kW.

Wall-mounted.
S-****PK3E.
5 capacities: 3,6 - 10,0 kW.

Ceiling.
S-****PT3E.
7 capacities 3,6 - 14,0 KW.

PACi NX Series Standard 4 way 90x90 cassette Inverter+ · 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.

			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
Fuse Size	Recommended / Max	A	15 / 15	15 /1 5	16 /20	20 /20	35 / 35	40 / 40	40 / 40
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 pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) [5]	1/4 (6,35) [5]	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas pipe	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) [6]	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	3~15	3~20	3~40	3~40	5~50	5~50	5~50
Elevation difference (in / out) [7]		m	15 / 15	15 / 15	15 / 30	20 / 30	15 / 30	15 / 30	15 / 30
Pipe length for additional gas		m	7,5	7,5	30	30	30	30	30
Additional gas amount		g/m	10	15	15	17	45	45	45
Refrigerant (R32) / CO_2 Eq.		kg / T	0,87 / 0,59	1,14 / 0,77	1,15 / 0,78	1,32 / 0,89	2,40 / 1,62	2,80 / 1,89	2,80 / 1,89
Operating range	Cool Min ~ Max	°C	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43
	Heat Min ~ Max	°C	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24

Technical focus

- High performance turbo fan
- Econavi: An optional intelligent sensor to reduce waste of energy
- nanoe™ X (Generator Mark 1= 4,8 trillion hydroxyl radicals/ sec) as standard for better indoor air quality, indoor unit internal cleaning with nanoe™ X and dry operation
- Lower noise in slow fan operation
- Light weight, easy piping and integrated drain pump for quick installation
- Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®
- High volume fresh air input with optional air-intake plenum and chamber (CZ-FDU3+CZ-ATU2)

CZ-RTC5B

Standard panel.
CZ-KPU3W

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

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

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

			Three phase		
			10,0 kW	**12,5 kW**	**14,0 kW**
Kit			**KIT-100PU3Z8**	**KIT-125PU3Z8**	**KIT-140PU3Z8**
Remote controller			**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**
Cooling capacity	Nominal (Min-Max)	kW	10,0 (3,0 - 11,5)	12,5 (3,2 - 13,5)	14,0 (3,3 - 15,0)
EER [1]	Nominal (Min-Max)	W/W	3,82 (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
Fuse Size	Recommended / Max	A	15 / 1 5	20 / 20	20 / 20
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 pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas pipe	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5 ~ 50	5 ~ 50	5 ~ 50
Elevation difference (in / out) [7]		m	15 / 30	15 / 30	15 / 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	2,40 / 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.

R32 | A++ 8,1 SEER | A++ 4,9 SCOP | 28% ECONAVI | INVERTER+ | -10 °C COOLING MODE | -15 °C HEATING MODE | nanoeX | DC FAN | R22 R410A → R32 R22 / 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.eu.