

# 4 way 90x90 cassette with nanoe X Generator Mark 3



Large capacity VRF. Trusted power and high efficiency. These Cassettes offer upgraded nanoe™ X technology and Econavi as accessories for making application space more comfortable and efficient.

White and graphite black panels now available for the 4 way 90x90 cassette, offering versatile options for commercial applications.



Standard panel, white (RAL9003). CZ-KPU3

Standard panel, graphite black (RAL9011). CZ-KPU3B

Econavi panel, white (RAL9003). CZ-KPU3A

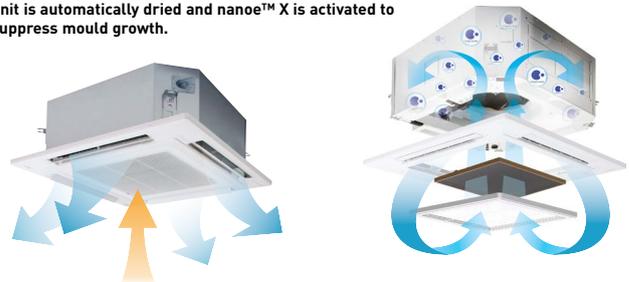


## Always fresh and clean air with nanoe™ X

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 and dry operation.

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

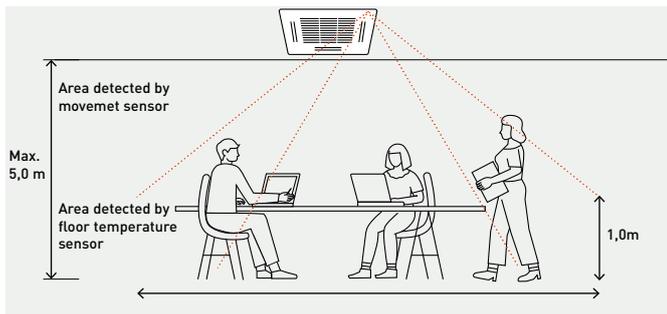
After cooling/drying operation, the inside of the indoor unit is automatically dried and nanoe™ X is activated to suppress mould growth.



Operates the fan to discharge internal humidity. Operate the fan to circulate nanoe™ X internally.

## Optional Econavi intelligent sensor

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

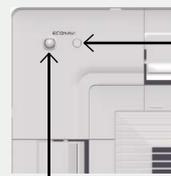


## Advanced Econavi functions.



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 up to 5 m.

Econavi exclusive panel. Optional (CZ-KPU3A).



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

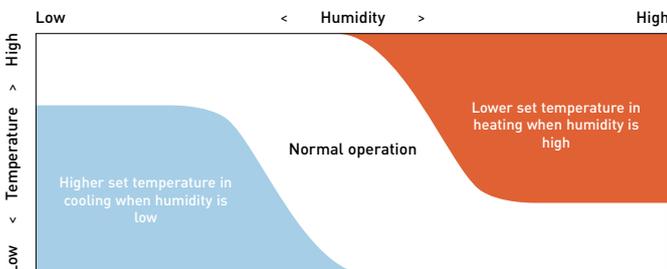
**Movement sensor.** This sensor detects the amount of human activity, and operates effectively.



Wired remote controller CZ-RTC5B, CZ-RTC6W/BL or CZ-RTC6/BL is required.

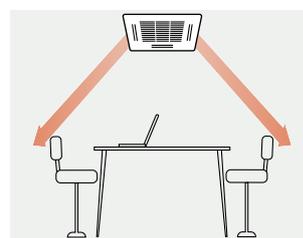
## Humidity sensor.

A humidity sensor positioned in the air inlet provides comfort and saves energy based on temperature and humidity.

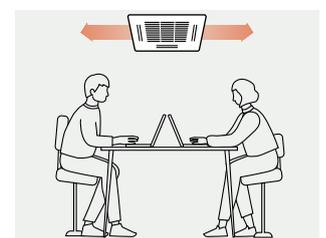


## Group control, circulation function.

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



Circulation by detecting no movement (10 minutes).



Indirect air flow by detecting movement.

U2 type 4 way 90x90 cassette · R32 / R410A

The 4 way 90x90 cassettes with integrated nanoe X Generator Mark 3 and design panel.

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

Panels (sold separately):

Standard, white (RAL9003). CZ-KPU3

Econavi, white (RAL9003). CZ-KPU3A

Standard, graphite black (RAL9011). CZ-KPU3B



Indoor unit. S-***MU2E5C			22	28	36	45	56	60	73	90	112	140	160
Cooling capacity	kW		2,2	2,8	3,6	4,5	5,6	6,0	7,3	9,0	11,2	14,0	16,0
Input power	W		20,00	20,00	20,00	20,00	25,00	35,00	40,00	40,00	95,00	95,00	105,00
Current	A		0,21	0,21	0,21	0,21	0,23	0,33	0,36	0,38	0,74	0,74	0,82
Heating capacity	kW		2,5	3,2	4,2	5,0	6,3	7,1	8,0	10,0	14,0	16,0	18,0
Input power	W		20,00	20,00	20,00	20,00	25,00	35,00	40,00	40,00	90,00	90,00	100,00
Current	A		0,20	0,20	0,20	0,20	0,22	0,32	0,35	0,37	0,72	0,72	0,80
Fan type			Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan					
nanoe X Generator			Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3					
Air flow	Hi/ Med/ Lo	m <sup>3</sup> /min	12,8/12,1/11,5	12,8/12,1/11,5	14,5/13,0/11,5	15,5/13,0/11,5	16,5/13,5/11,5	21,0/16,0/13,0	22,5/16,0/13,0	23,0/18,5/14,0	36,0/26,0/20,0	36,0/26,0/20,0	37,0/28,0/24,0
Sound pressure		dB(A)	30/29/28	30/29/28	30/29/28	31/29/28	32/30/28	36/32/29	37/32/29	38/35/32	45/39/35	45/39/35	46/40/38
Sound power		dB(A)	45/44/43	45/44/43	45/44/43	46/44/43	47/45/43	51/47/44	52/47/44	53/50/47	60/54/50	60/54/50	61/55/53
Dimension (HxWxD)	Indoor	mm	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	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					
Net weight (Panel)	kg		20(5)	20(5)	20(5)	20(5)	20(5)	20(5)	20(5)	20(5)	25(5)	25(5)	25(5)
Piping diameter R32 model	Liquid	Inch (mm)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	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)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	5/8(15,88)	5/8(15,88)	5/8(15,88)
Piping diameter R410A model	Liquid	Inch (mm)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	3/8(9,52) <sup>1)</sup>	3/8(9,52) <sup>1)</sup>	3/8(9,52) <sup>1)</sup>	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)	1/2(12,70)	1/2(12,70)	5/8(15,88) <sup>1)</sup>	5/8(15,88) <sup>1)</sup>	5/8(15,88) <sup>1)</sup>	5/8(15,88)	5/8(15,88)	5/8(15,88)

1) When the piping diameter is (liquid) Ø1/4 (6,35) - (gas) Ø1/2 (12,70), connect the liquid socket tube (Ø1/4 (6,35) - Ø3/8 (9,52)) to the liquid tubing side indoor unit and connect the gas socket tube (Ø1/2 (12,70) - Ø5/8 (15,88)) to the gas tubing side indoor unit. \* 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-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
CZ-RWS3 + CZ-RWRU3	Infrared remote controller and receiver
PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white
PAW-RE2C4-MOD-BK	Room controller for hotel rooms, black

Accessories	
PAW-RE2D4-WH	Display control for hotel rooms, white
PAW-RE2D4-BK	Display control for hotel rooms, black
CZ-KPU3	Standard panel, white (RAL9003)
CZ-KPU3B	Standard panel, graphite black (RAL9011)
CZ-KPU3A	Econavi exclusive panel, white (RAL9003)
CZ-CENSC1	Econavi energy saving sensor
CZ-FDU3+CZ-ATU2	Fresh air-intake kit
CZ-CGLSC2	Panasonic R32 refrigerant leak detector

Technical focus

- High performance turbo fan
- Lower noise in low fan operation
- Ceiling height up to 5,0 m
- Industry leading lightweight design
- Econavi: Temperature, humidity and activity sensor
- nanoe™ X (Generator Mark 3: 48 trillion hydroxyl radicals/sec) as standard for better indoor air quality, indoor unit internal cleaning with nanoe™ X and dry operation
- Powerful drain pump gives 850 mm lift
- Fresh air knockout
- Branch duct connection
- High volume fresh air input with optional air-intake plenum and chamber (CZ-FDU3+CZ-ATU2)
- **New** graphite black and white panels providing options to suit a variety of light commercial applications

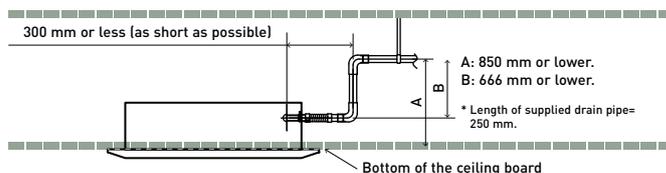
Panel design

A modern flat panel design blends into any space. These cassettes provide high energy saving, comfort and better indoor air quality that satisfy customers.

- Flat design, well-matched with interior aesthetic
- 4-way individual flap control

The drain pipe can be raised to a maximum height of 850 mm from the bottom of the ceiling

Integrated drain pump allows a drain height of 850 mm making the installation much easier.



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.