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

+ •nanoeX™

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.

Thanks to advances in design and technology such as the high performance turbo fan which is more efficient and silent, nanoe™ X technology, and the floor temperature and humidity sensor (Econavi) for more control, the Panasonic U2 type 4 way 90x90 cassette offers greater comfort.

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.

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*.
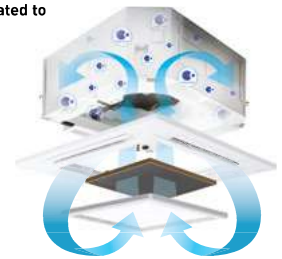In addition to the 7 effects of nanoe™ X, the indoor unit can also be cleaned with a short operation of nanoe™ X + dry mode.

* Controllers (CZ-RTC5B 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.
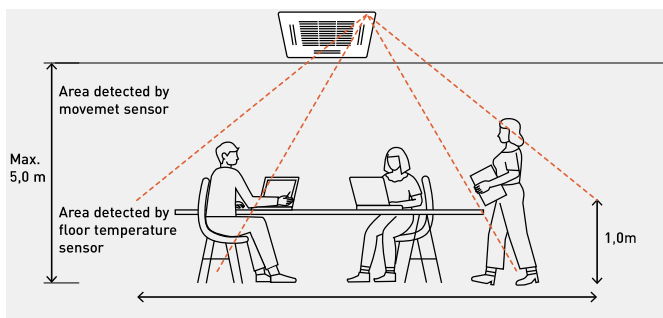

Operates the fan to discharge internal humidity.

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.

Area detected by movemet sensor

Max. 5,0 m
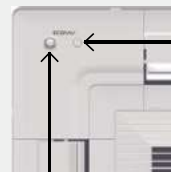
Area detected by floor temperature sensor

1,0m

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.

INTELLIGENT ECO SENSORS
ECONAVI

Econavi exclusive panel. Optional (CZ-KPU3AW)

Floor temperature sensor.
This sensor detects average floor temperature and operates circulation if floor temperature is low.
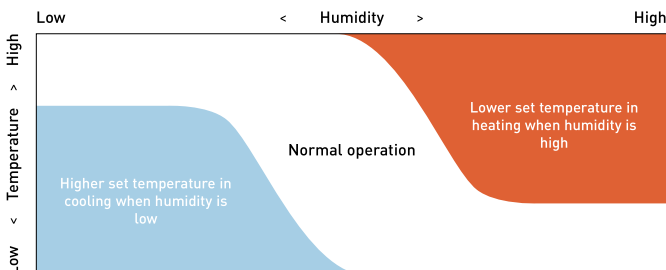
Movement sensor.
This sensor detects the amount of human activity, and operates effectively.

Wired remote controller CZ-RTC5B 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.

Low ‹ Humidity › High

High › Temperature › Low

Lower set temperature in heating when humidity is high

Normal operation

Higher set temperature in cooling when humidity is low

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.
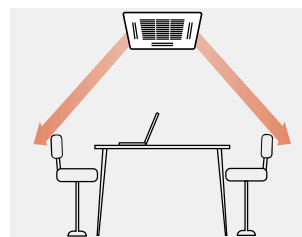
Circulation by detecting no movement (10 minutes).

Indirect air flow by detecting movement.

NEW U2 type 4 way 90x90 cassette · R32 / R410A

The 4 way 90x90 cassettes with integrated nanoe X Generator Mark 3 and design panel.
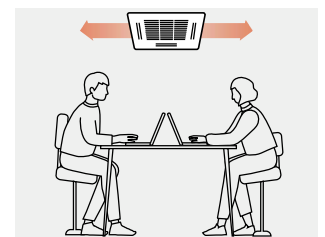
A modern flat panel design blends into any space. These cassettes provide high energy saving, comfort and better indoor air quality that satisfy customers.

New **2023**

+ 🞄 nanoe X™

nanoe™ X as a standard.

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

NEW Indoor unit. S-***MU2E5BN		22	28	36	45	56	60	73	90	—	112	140	160
nanoe X Generator		Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	—	Mark 3	Mark 3	Mark 3
Indoor unit. S-***MU2E5B		22	28	36	45	56	60	73	90	106	—	140	160
nanoe X Generator		Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	—	Mark 2	Mark 2
Cooling capacity	kW	2,2	2,8	3,6	4,5	5,6	6,0	7,3	9,0	10,6	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	90,00	95,00	95,00	105,00
Current	A	0,21	0,21	0,21	0,21	0,23	0,33	0,36	0,38	0,71	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	11,4	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	85,00	90,00	90,00	100,00
Current	A	0,20	0,20	0,20	0,20	0,22	0,32	0,35	0,37	0,69	0,72	0,72	0,80
Fan type		Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan
Air flow Hi/Med/Lo	m³/min	12,8 [1]/ 12,1 [1]/11,5 [1]	12,8 [1]/ 12,1 [1]/11,5 [1]	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	34,0/25,0/ 19,0	36,0/26,0/ 20,0	36,0/26,0/ 20,0	37,0/28,0/ 24,0
Sound pressure Hi/Med/Lo	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	44/38/34	45/39/35	45/39/35	46/40/38
Sound power Hi/Med/Lo	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	59/53/49	60/54/50	60/54/50	61/55/53
Dimension (H x W x D) Indoor	mm	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	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	319 x 840 x 840
Dimension (H x W x D) 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	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	19 (5)	19 (5)	19 (5)	19 (5)	19 (5)	20 (5)	20 (5)	20 (5)	25 (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)	3/8 (9,52)
Piping diameter R32 model 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)	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) [2]	3/8 (9,52) [2]	3/8 (9,52) [2]	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
Piping diameter R410A model 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) [2]	5/8 (15,88) [2]	5/8 (15,88) [2]	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)

1) The data for S-***MU2E5B is different. Please refer the technical manual. 2) 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-RWRU3W	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

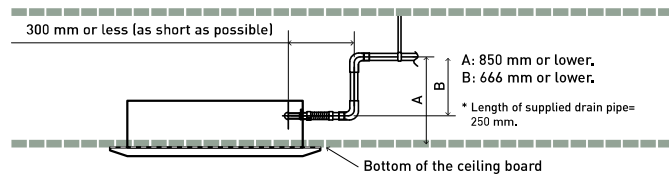| Accessories	
PAW-RE2D4-WH	Display control for hotel rooms, white
PAW-RE2D4-BK	Display control for hotel rooms, black
CZ-KPU3W	Standard panel
CZ-KPU3AW	Econavi exclusive panel
CZ-CENSC1	Econavi energy saving sensor
CZ-FDU3+CZ-ATU2	Fresh air-intake kit
CZ-CGLSC1	Panasonic R32 refrigerant leak detector

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 as standard. MU2E5BN: Generator Mark 3: 48 trillion hydroxyl radicals/sec. MU2E5B: Generator Mark 2: 9,6 trillion hydroxyl radicals/sec
· Indoor unit internal cleaning with nanoe™ X plus 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)

Panel design

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.

300 mm or less (as short as possible)

A: 850 mm or lower.
B: 666 mm or lower.

* Length of supplied drain pipe= 250 mm.

Bottom of the ceiling board

ECONAVI 28%
nanoe X
SELF-DIAGNOSING
AUTOMATIC FAN
HUMIDITY CONTROL DRY
AUTO-FLAP CONTROL
AUTOMATIC RESTART
AIR SWEEP
BUILT-IN DRAIN PUMP
OPTIONAL WI-FI
BMS CONNECTIVITY

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.

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