New 4 way 90x90 cassette with nanoe™ X

+ ●•nanoe X™

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

Thanks to advances in design and technology such as the new high performance turbo fan which is more efficient and silent, and nanoe™ X technology and the floor temperature and humidity sensor to more control, the U2 Panasonic 4 way 90x90 cassette offers 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.
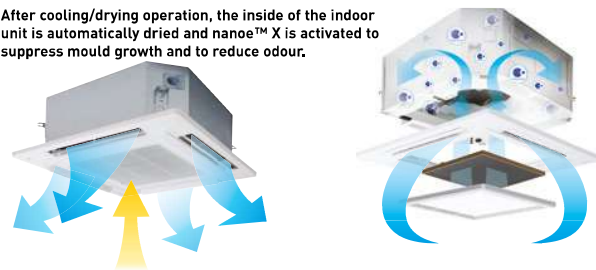
Always fresh and clean air with nanoe™ X

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 and to reduce odour.
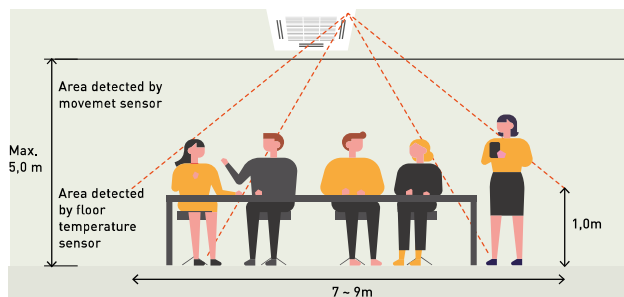
Operates the fan to discharge internal humidity.

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

7 ~ 9m

1,0m

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

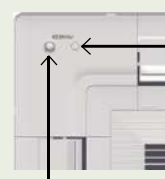Higher set temperature in cooling when humidity is low

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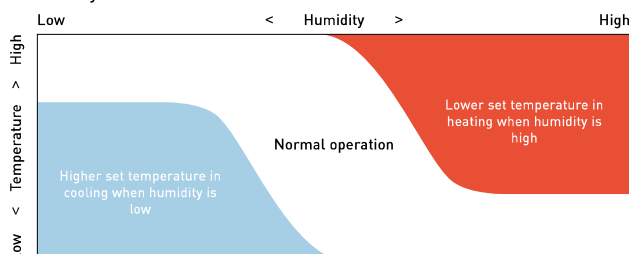
Movement sensor. This sensor detects the amount of human activity, and operates effectively.

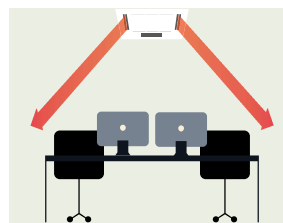Wired remote controller CZ-RTC5B or CZ-RTC6/BL is required.

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 min.)

Indirect air flow by detecting movement.

NEW 2021

nanoe X as a standard.

NEW U2 Type 4 way 90x90 cassette • R32/R410A

The 4 way 90x90 cassettes with integrated nanoe X Generator Mark 2 and new panel design.
Panasonic introduces 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 better indoor air quality.

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

Model	S..MU2E5B	22	28	36	45	56	60	73	90	106	140	160
Cooling capacity	kW	2,2	2,8	3,6	4,5	5,6	6,0	7,3	9,0	10,6	14,0	16,0
Input power cooling	W	20,00	20,00	20,00	20,00	25,00	35,00	40,00	40,00	90,00	95,00	105,00
Current (cool)	A	0,21	0,21	0,21	0,21	0,23	0,33	0,36	0,38	0,71	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	16,0	18,0
Input power heating	W	20,00	20,00	20,00	20,00	25,00	35,00	40,00	40,00	85,00	90,00	100,00
Current (heat)	A	0,20	0,20	0,20	0,20	0,22	0,32	0,35	0,37	0,69	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
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
Air flow Hi/Med/Lo	m³/min	14,50/13,00/11,50	14,50/13,00/11,50	14,50/13,00/11,50	15,50/13,00/11,50	16,50/13,50/11,50	21,00/16,00/13,00	22,50/16,00/13,00	23,00/18,50/14,00	34,00/25,00/19,00	36,00/26,00/20,00	37,00/28,00/24,00
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	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	61/55/53
Dimension (H x W x D) Indoor	mm	256x840x840	256x840x840	256x840x840	256x840x840	256x840x840	256x840x840	256x840x840	256x840x840	319x840x840	319x840x840	319x840x840
Dimension (H x W x D) Panel	mm	33,5x950x950	33,5x950x950	33,5x950x950	33,5x950x950	33,5x950x950	33,5x950x950	33,5x950x950	33,5x950x950	33,5x950x950	33,5x950x950	33,5x950x950
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)
Pipe diameter 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) [1]	3/8 (9,52) [1]	3/8 (9,52) [1]	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
Pipe diameter 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) [1]	5/8 (15,88) [1]	5/8 (15,88) [1]	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRU3W	Infrared remote controller
PAW-RE2C4	Wired remote controller for hotel application

Accessories	
CZ-KPU3W	Standard panel.
CZ-KPU3AW	Econavi exclusive panel
CZ-CENSC1	Econavi energy savings sensor
CZ-FDU3+CZ-ATU2	Fresh air-intake kit
CZ-CGLSC1	R32 refrigerant leak detector

1) When the pipe diameter is (Liquid) Ø6,35(1/4) - (Gas) Ø12,7(1/2), connect the liquid socket tube (Ø6,35 - Ø9,52) to the liquid tubing side indoor unit and connect the gas socket tube (Ø12,7 - Ø15,88) to the gas tubing side indoor unit. * Above values are in the case of nanoe™ X OFF.
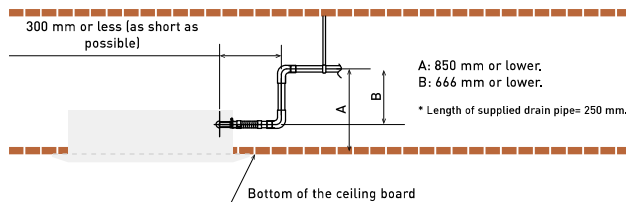
Technical focus

· High performance turbo fan, new path system for heat exchanger
· Lower noise in slow fan operation
· Ceiling height up to 5,0 m
· Industry top light weight, easy piping
· Econavi: Floor temperature and humidity sensor added. Activity amount detection and new circulator
· nanoe™ X (Generator Mark 2= 9,6 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)

Panel design

Flat design, well-matched with interior.
Position of 4 air wings can be set individually.

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

28% ECONAVI | nanoe X | SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL MILD 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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