Panasonic

CONEX Zone Controller

Product Presentation 2022/2023









* Image is for illustrative purposes only.

Panasonic Cooling and Heating Solutions

Providing A New Gateway that Creates New Value for the Air Conditioning Business

Panasonic utilises advanced IoT technology and cloud service to provide new value that go beyond just cooling and heating solutions.



Panasonic IoT Solution (Cloud & App)



*If owners have a multisite business, they can also use Smart/Service Cloud for total management.

A New Gateway for Smart Zone Air Conditioning



Next generation one-touch control, anywhere, anytime

Air Conditioning for Each Zone Anywhere, Anytime According to Your Needs. Enabled by the Fusion of Panasonic's IoT Technology and Cloud Service.

Required System for Zone Control

Zone Control System/Component Parts

Check the following pieces of connected items before putting together the system.



Zone Controller

CZ-RTC6Z

A maximum of 2 Zone Controllers can be connected. At least 1 Zone Controller needs to be connected to a RC terminal board.



Zone Control Box



CZ-CAPZ1M (Multiple Opening Step model) CZ-CAPZ1S (On/Off model)

Use one of the above Zone Control Box models.



Comfort Cloud App

Intuitive individual zone control

Added new feature for zone control.

NEW ///

NEW ///

REMOTE SENS



Damper and Damper Motor (local supply)

anytime, anywhere via Comfort Cloud App

Only drive open, drive close damper motors can be connected. (Spring motor dampers cannot be used.) A maximum of 8 dampers can be connected.

REMOTE SENSOR

Remote Temperature Sensor (optional) CZ-CSRC3

A maximum of 2 Temperature Sensors can be connected.

Transformer (local supply)

Use suitable model only for the damper motors.

Product Overview

NEW /// Zone Control System



Zone Controller

Intuitive Control with Comfort Cloud App



Zone Control Box CZ-CAPZ1M (Multiple Opening Step model) CZ-CAPZ1S (On/Off model)

Remote Temperature Sensor CZ-CSRC3 (optional)

Damper and Damper Motor (local supply)

Transformer (local supply)

Regarding system components, please refer to page 5.

Smart Zone Control via Comfort Cloud App

- Intuitive individual zone control anytime, anywhere via Comfort Cloud App



- Each family member can control home AC from multiple devices

Manage up to 8 Zones Smartly



- Easy management to maintain comfort and save energy

Precise Airflow Volume Control for Better Comfort NEW ///

- Precise airflow adjustment in 10% increments: CZ-CAPZ1M
- Simple zone control with On/Off: CZ-CAPZ1S

Ideal Temperature Control with Temperature Sensors (optional)

- Up to 2 remote temperature sensors enable individual temperature control of zones

Convenient Weekly Timer to Suit Your Lifestyle



- Weekly Timer can be used to set various AC operations





Smart Zone Control via the Comfort Cloud App

Smart Zone Control via the Comfort Cloud App/Main Function Overview



Various operations can be performed for each zone with a smartphone via the Comfort Cloud App.



Requirements for Connecting with the Panasonic Comfort Cloud App



Zone Control Network Zone Control remote controller equipped with built-in Wi-Fi/CZ-RTC6Z

Other Hard ware Requirements*

Router – Internet – Smartphone (2.4GHz transmission channel required) *Purchase and subscribe separately. Compatible Device
And BrowsersDownload
Free1. iOS 9.0 or above
2. Android™ 5.0
Lollipop or latestPanasonic
Comfort
Cloud App

Manage Up to 8 Zones Smartly

Control Up to 8 zones and save energy with a fingertip anywhere, anytime.





- Controlled by multiple users
- Controlled from anywhere, anytime via the App







"S" on the Zone status means Spill Zone, and if it is displayed, you cannot operate the zone. The spill zone is set at the time of installation, and the damper automatically opens to reduce the static pressure when the static pressure is likely to exceed the PQ chart. It's not displayed when installed with the Common Zone.

Advanced Zone Control Benefits

The combination of CFC App and Zone Controller offers a variety of benefits.

Individual comfort and energy saving Airflow Volume Control

E.g.) Open up the living room damper after meals for comfort.



Decrease the dining room damper opening after meals for energy saving.



Auto-optimised comfort for your lifestyle Weekly timer

E.g.) Pre-cooling is set according to the time you return home. Also thanks to nanoe[™], clean the room air even while you're away from home.

Cooling usually starts before 5 o'clock







Enable comfort for the whole family **Target Temperature Control** with Optional Remote Temperature sensor



E.g.) Control AC based on the bedroom temp for a comfortable sleep, and when gathering in the living room, switch to AC control based on the living room temp, aiming for a comfortable room temp.



Airflow Volume Control

The damper opening of each zone can be controlled with the CFC App to achieve both individual zone comfort and energy saving.

(CZ-CAPZ1M: When using the multiple opening step model *) *The CZ-CAPZ1S can only turn the damper ON/OFF



Weekly Timer

Setting timers according to your lifestyle for a week automatically provides comfortable air conditioning.



Able to set 6 timers/day

Realise optimal air conditioning for your lifestyle with timers



Clean the air with the nanoe[™] mode when you go out. Pre-cool the living zone according to the time you return home.

Pre-cool 30 minutes before going to bed. Cooling in the living zone is switched OFF 30 minutes later.



Cool your bedroom on

Cool your bedroom on weekend mornings if you want to sleep longer.

Target Temperature Control

Easy switching of temp in targeted zones makes the whole family comfortable.



Optional temperature sensors enable precise temperature control. From a max 5 temp sensors, you can choose the Master temp sensor, and use it to set the targeted zone for AC control.



*When shipped from the factory, Indoor unit sensor is set as the master sensor

Auto mode

AC runs to reach to the lowest temp sensor (cooling) among all sensors. Possible to change master sensor manually.

*If set to AUTO mode, it will automatically change to the optimal master sensor, no need to manually set the sensor. The temp in the targeted zone can be switched easily according to how you and your family spend time, making the whole family comfortable.



Fill Your Life with Clean Air. Only from Panasonic



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Comfort cloud APP

24-hour nance[™] X Air purification*

While the general filters in air purifiers are effective against airborne bacteria and viruses, nance[™] X also works to inhibit longer-living, adhered bacteria and viruses. As well as this, the Comfort Cloud App gives you access to your air conditioner anywhere, anytime, so you can turn nance[™] X on even while you're out and enjoy 24-hour quality air in your home.

* The nance™ X mode can be run independently from cooling or heating mode, and needs to be on for the 24 hour air purification to function.





24hr nanoe[™] X Comfort, Wherever You Are, Anywhere, Anytime **Contract**

Get 24 hr Quality Air for you and your loved ones by turning nanoe[™] X on using Panasonic Comfort Cloud even when you're out, and enjoying clean air when you're at home. nanoe[™] X functions in both cooling and heating modes and is maintenance-free, helping you keep your costs down with cleaner air.



*Low energy consumption with fan mode 70W per hour for a single unit. Energy consumption may vary depending on models and the external static pressure. *2 No maintenance required for nance™X generator device.

7 effects of nanoeTM X

Can deodorise and inhibit certain pollutants in the air and on surfaces, even on fabrics.



nanoe[™] X Technology

Thanks to the nance[™] X properties, several types of pollutants can be inhibited.



nanoe[™] X reliably reaches pollutants.







Pollutants activity is inhibited.



How to Activate nanoe[™] X

With the Comfort Cloud App, you can easily turn on nanoeTM anywhere, anytime.

Turn ON the nance[™] Mode with Cooling or Heating ON

3:54 PM My House My House Zc 18.Jan 16:51 18.lan 16:51 6 C. ** nanoeX ECONAVI 10 Cool 24.0° OK / + æ ...

Clean the room air even while you're away from home



Turn ON the nanoe[™] Mode









Smart Zone Control via the Zone Controller

CONEX Zone Controller

Easy-to-read screen display.

2 damper screen settings for both the ON/OFF model and Multiple model.



Basic Operation

Easy-to-operate Temp Setting/Mode Select/Fan Speed







"S" on the Zone status means Spill Zone, and if it is displayed, you cannot operate the zone.





*The spill zone is set at the time of installation, and the damper automatically opens to reduce the static pressure when the static pressure is likely to exceed the PQ chart.



How to Activate nanoe[™] X

With the CONEX Zone Controller, you can easily turn on nanoeTM anytime. Thanks to the properties of nanoeTM X, several types of pollutants can be inhibited.

Activate nanoe X **Function List** Zone List Panasonic Panaso Panasonic ZONE Menu nanoeX 🖾 Indoor XX/XX ensor ON LIVING nanoeX ON OFF KITCHEN Filter sign \sim ON Outing function No.3 [+-] 📫 i≡]Next [≔]⊅ [₊]Confrm [::=] ⊅ [₊] 📦





How to Select Remote Temperature Sensors

With CONEX Zone, easily select remote temperature sensors. Optional temperature sensors enable precise temperature control. From a max 5 temp sensors, you can choose the Master temp sensor, and use it to set the targeted zone for AC control. 1.IDU return sensor 2. Main RC sensor Zone List Sensor Select Select 3. Sub RC sensor Panasonic Panasonic Panasonic ZONE ZONE Select a sensor 📜 Indoor 🗉 Indoor Sensor ensor 🗉 Indoor ON LIVING LIVING ON \sim KITCHEN OFF KITCHEN OFF 4. Optional remote temp sensor ON Sensor temp. 28°C No.3 S No.3 ഭ ON [+] III [:≡]Next [__] **•••** [≔]⊅ [₊]Confrm [≔]Next 5. Optional remote temp sensor *When shipped from the factory, =Indoor unit sensor is set as the master sensor. Auto mode If set to AUTO mode, AC runs to reach to the lowest temp sensor

it will automatically change to the optimal master sensor, no need to manually set the sensor.

(cooling) among all sensors.

Possible to change master sensor manually.

Controllable Function List, Remote Control and App

	Zone Controller (CZ-RTC6Z)		Comfort Cloud
	ON/OFF (CAPZ1S)	Multiple (CAPZ1M)	APP
Function	28.0c [*] [*] [*] [*] [*] [*] [*] [*]		Panasonic
Power ON/OFF	✓	\checkmark	\checkmark
Temperature setting	\checkmark	\checkmark	\checkmark
Fun Speed Setting	\checkmark	\checkmark	\checkmark
Mode Selection	✓ <i>✓</i>	✓ <i>✓</i>	✓
Zone ON/OFF	\checkmark	\checkmark	\checkmark
Damper Step Settings	-	√	\checkmark
Weekly Timer	-	-	\checkmark
nanoe [™] X ON/OFF	\checkmark	✓	√
WLAN Settings	\checkmark	\checkmark	_
Enter Zone Names	\checkmark	\checkmark	\checkmark
Temperature Zone Setting	✓ <i>✓</i>	✓ <i>✓</i>	✓
Auto Sensor	\checkmark	✓	-
Spill Zone Settings	\checkmark	\checkmark	\checkmark
Spill Zone Notification	\checkmark	\checkmark	\checkmark
Field Settings	✓ <i>✓</i>	✓ <i>✓</i>	✓
Test Run	✓	✓	_
Operate from Outside	_	_	✓
Operate from Any Room	-	-	√
Multiple Users	_	_	✓



Specifications and Installation

Required System for Zone Control

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Check the following pieces of connected items before putting together the system.



Zone Controller

NEW ///

NEW ///

CZ-RTC6Z

A maximum of 2 Zone Controllers can be connected. At least 1 Zone Controller needs to be connected to an RC 1 terminal board.



Zone Control Box



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CZ-CAPZ1M (Multiple Opening Step Model) CZ-CAPZ1S ON/OFF Model)

Use one of the above Zone Control Box models.



Comfort Cloud App

Added new feature for zone control. Intuitive individual zone control anytime, anywhere via Comfort Cloud App





A maximum of 2 Temperature Sensors can be connected.

Transformer(local supply)

Use models suitable for the damper motors.



Damper and Damper Motor (local supply)

Only drive open, drive close damper motors can be connected. (Spring motor dampers cannot be used.) A maximum of 8 can be connected.



Product Specifications

Zone Remote Controller



Specs & dimensions

Model No.	CZ-RTC6Z
Dimensions	(H) 86 mm x (W) 86 mm x (D) 25 mm
Weight	0.10 kg
Temperature /	0°C to 40°C / 20% to 80% (No condensation)
Humidity range	Indoor use only.
Power Source	DC16 V (supplied from indoor unit)
Wireless LAN standard	IEEE 802.11 b/g/n
Frequency range	2.4 GHz band
Encryption	WPA2-PSK (TKIP/AES)
OS version on the mobile device for CFC	iOS: 9.0 or later Android™: 5.0 or later



Zone Control Box

Specs & dimensions

Model No.	CZ-CAPZ1S/CZ-CAPZ1M
Dimensions	(H) 250 mm x (W) 342 mm x (D)70 mm
Weight	1.9 kg



Symbols on the controller

- This symbol indicates "Protective earth".
- This symbol indicates "Functional earthing".

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• Android[™], Google Play[™] and Google Play[™] logos are registered trademarks of Google LLC.

Duct Work Design

Flexible duct design is possible. Choose between the two duct designs below.

Common Zone

Install a common zone that is always open so that the static pressure is within the indoor fan curve (the PQ diagram) range regardless of the open/closed state of the damper.



Using the Spill Zone

This is the installation method in which the damper specified by the installer is automatically opened fully according to the load conditions to release the air to avoid excessive static pressure.



*Install a Common outlet for Common Zone design. ** Design ducting to fit into the PQ diagram of IDU even when all dampers are fully opened or closed. *** In the case of Spill zone design, do not install a Common zone as it cannot be combined with a Spill Zone. **** Design at least one Spill Zone. Refer to the Installation Instructions for the Zone Control Box for setting details.

System Diagram



Usable indoor units



Zone Controller can be connected with 3.6kW to 22.4 kW Ducted (PE3 and PF3) indoor units and VRF Ducted (M1, E1, E2, E1R, F2, F3 and Z1) indoor units. *Connectable to selected Panasonic ducted models only. Please consult Panasonic for more details.

PAC

Series	PE3	PF3
Capacity	6.0 kW- 22.4 kW	3.6 kW- 14.0 kW

5.6 kW

<u>VRF</u>			
Series	ME1	ME2	ME1R
Capacity	7.3 kW- 14.0 kW	18.0 kW- 28.0 kW	9.0 kW- 16.0 kW
Series	MM1	MF3	MZ1
Capacity	2.2 kW-	2.2 kW-	2.2 kW-

16.0 kW

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7.3 kW

Installation



Installation/Electrical Wiring

Damper motor wiring

- Confirm that the damper motor and damper motor cable you are using both meet the following specifications.
- Damper motor & damper motor cable

Specifications		
Damper motor	Voltage	24 V ~
	Frequency	50-60 Hz
	Maximum Operation Current (per damper)	360 mA or less
	Maximum Electric Power (per damper)	7 VA or less
Damper motor cable	Wire diameter (mm²)	0.48 mm ² or more (Min. 0.48 mm ²)
	Maximum wiring length	30 m or less
	Туре	RJ12 6-poler, 6-core
Transformer	Input Voltage	240 ~
	Output Voltage	24 V ~

Wire length and wire diameter

• Two types are used; the power supply cable (B) and the control wiring (C).

Power supply

(B) Power supply	Time delay fuse or circuit	
2 mm ² (Min. 2 mm ²)	capacity	
Max. 30 m	10-16 A	

Remote control wiring & Zone control wiring

No polarity

(C) Remote control wiring & Zone control wiring			
0.75 mm ² to 1.25 mm ² (AWG#18 to AWG#16) (Min. 0.75 mm ²)			
Max. 50 m			

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NOTE

•With ring-type wire terminal.

*Minimum 0.36A for one damper motor.