

Panasonic Low Temperature Applications

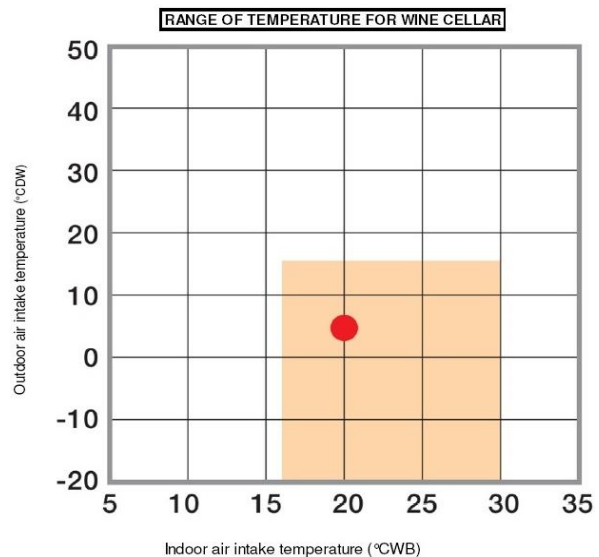
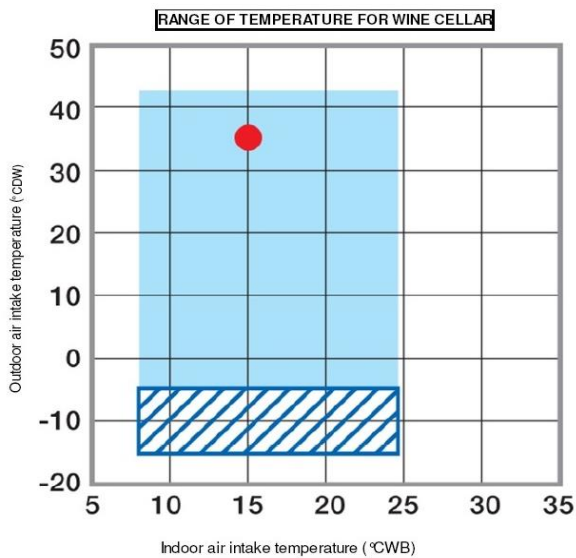
Mandatory Settings

One of the key points we have with the PACi range is the option to set up the product for special applications not only for standard heating and cooling ones. The purpose of this technical bulletin is to explain in detail what settings are required in order to maintain rooms between 10°CDB-30°CDB.

Example Installations:

Wine Cellar, flower shops, food preparation, storage rooms and gymnasiums.

Range of Temperature:



Only allowed if it has been installed wind protection and snow protection.



Point where is established cooling and heating capacity for this purpose.

RANGE OF TEMPERATURE FOR WINE CELLAR		
COOLING	Indoor	8—24°CWB
	Outdoor	-5 (-15*)—43°CDB
HEATING	Indoor	16—30°CDB
	Outdoor	-20—15°CWB

* Only when has been installed wind protection and snow protection is allowed.



Unit 1C, Enterprise Close
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Compatibility Table:

Wall Mounted (PK)

Kit	low temp.36	low temp.50	low temp.60	low temp.71	low temp.100	low temp.125	low temp.140	low temp. 200	low temp. 250
Indoor Unit	S-60PK2E5B	S-71PK2E5B	S-100PK2E5B	S-60PK2E5B×2	S-71PK2E5B×2	S-71PK2E5B×2	S-100PK2E5B×2	N/A	N/A
Outdoor Unit	U-36PZH2E5	U-50PZH2E5	U-60PZH2E5	U-71PZH2E5/8	U-100PZH2E5/8	U-125PZH2E5/8	U-140PZH2E5/8	N/A	N/A

Ceiling Suspended (PT)

Kit	low temp. 36	low temp. 50	low temp. 60	low temp. 71	low temp. 100	low temp.125	low temp.140	low temp.200	low temp.250
Indoor Unit	S-60PT2E5B	S-71PT2E5B	S-100PT2E5B	S-125PT2E5B	S-140PT2E5B	S-140PT2E5B	S-100PT2E5B×2	S-125PT2E5B×2	S-140PT2E5B×2
Outdoor Unit	U-36PZH2E5	U-50PZH2E5	U-60PZH2E5	U-71PZH2E5/8	U-100PZH2E5/8	U-125PZH2E5/8	U-140PZH2E5/8	U-200PZH2E8	U-250PZH2E8

4 Way 90 x 90 Cassette (PU)

Kit	low temp. 36	low temp. 50	low temp. 60	low temp. 71	low temp. 100	low temp.125	Low temp.140	low temp.200	low temp.250
Indoor Unit	S-60PU2E5B	S-71PU2E5B	S-100PU2E5B	S-125PU2E5B	S-140PU2E5B	S-140PU2E5B	S-100PU2E5B×2	S-125PU2E5B×2	S-140PU2E5B×2
Outdoor Unit	U-36PZH2E5	U-50PZH2E5	U-60PZH2E5	U-71PZH2E5/8	U-100PZH2E5/8	U-125PZH2E5/8	U-140PZH2E5/8	U-200PZH2E8	U-250PZH2E8

Low Static Pressure Hide Away (PN)

Kit	low temp.36	low temp.50	low temp.60	low temp.71	low temp.100	low temp.125	low temp.140	low temp. 200	low temp. 250
Indoor Unit	S-60PN1E5B	S-71PN1E5B	S-100PN1E5B	S-125PN1E5B	S-140PN1E5B	S-140PN1E5B	S-100PN1E5B×2	S-125PN1E5B×2	S-140PN1E5B×2
Outdoor Unit	S-60PN1E5B	S-71PN1E5B	S-100PN1E5B	S-125PN1E5B	S-140PN1E5B	S-140PN1E5B	S-100PN1E5B×2	S-125PN1E5B×2	S-140PN1E5B×2

High Static Pressure Hide Away (PF)

Kit	low temp. 36	low temp. 50	low temp. 60	low temp. 71	low temp. 100	low temp.125	low temp.140	low temp.200	low temp.250
Indoor Unit	S-60PF1E5B	S-71PF1E5B	S-100PF1E5B	S-125PF1E5B	S-140PF1E5B	S-140PF1E5B	S-100PF1E5B×2	S-125PF1E5B×2	S-140PF1E5B×2
Outdoor Unit	U-36PZH2E5	U-50PZH2E5	U-60PZH2E5	U-71PZH2E5/8	U-100PZH2E5/8	U-125PZH2E5/8	U-140PZH2E5/8	U-200PZH2E8	U-250PZH2E8

Mandatory Settings:

We have to remember that these combinations are **NOT STANDARD** and it is mandatory to do some set up to 'turn' system in "Special Wine Cellar" application.

Step 1: When power supply is to indoor and outdoor

- Before you turn any power on, cut the jumper **JP001** on the outdoor **Control PCB**.
- Then make sure there is power on to the fan coil unit first before going to the condenser to power it up. Turning on in the sequence, the system will self-address.













Step 1: When power supply to outdoor feeding the indoor

- Before you turn any power on, cut the jumper **JP001** on the outdoor **Control PCB**.
- Power up the condenser and this will auto address the indoor unit.




Step 2 is related to the indoor unit.

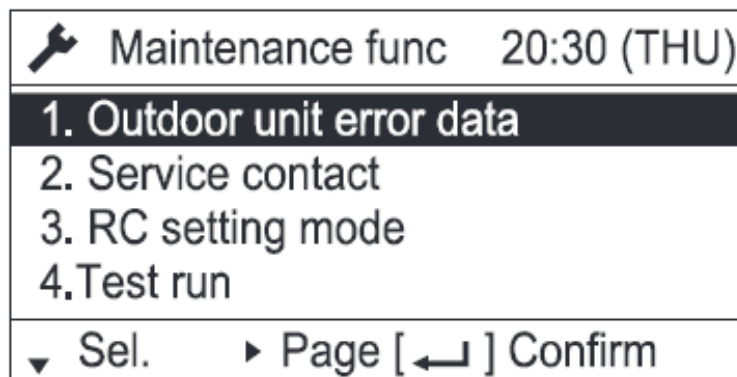
Wired remote controller temperature setting range must be updated. This setting is located in “detailed setting” menu **1F** and **20** for cooling and is also recommended to change temperature range for dry mode.

CZ-RTC2/CZ-RTC4

- By pressing the temperature buttons  /  select menu **1F** to limit maximum upper temperature mode. Press  /  timer buttons change from 30°C at shipment to 24°C. Fix it by using the  button. (The display stops blinking and remains lit, and setting is completed.) Press the  button to return to normal remote controller display.
- By pressing temperature buttons select menu **20** to limit minimum lower temperature in cooling mode. Pressing timer  /  buttons change from 18°C at shipment to 10°C. Fix it by using the  button and return to normal remote controller display by pressing the  button.

CZ-RTC5B

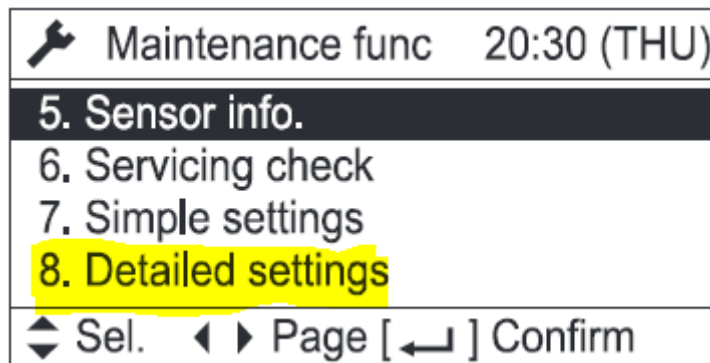
- Keep pressing the    buttons simultaneously for 4 or more seconds. The “Maintenance Func” screen appears on the LCD display.





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- Press the up or down button to see each menu. or
- If you wish to the next screen instantly, press the left or right button. or
- Select "8. Detailed Settings" on the LCD display and press the return button.



- Select the "Unit No." by pressing or for changes.
- Then press the to access Code and Data Information.
- Use the or to access code 1F and 20.
- Press the to save the new data.

1F (Upper limit) 20 (Lower limit)		Cooling	0018	18°C (Lower limit at shipment)
			0019	19°C
			}	}
			0029	29°C
			0030	30°C (Upper limit at shipment)

If the system is only will be used for cooling, it's also recommended to change menu **0F** in simple setting.

Item code	Item	Setting data	
		No.	Description
0F	Cool-only	0000	Normal
		0001	Cool only (Set "1" for item code OD.)



Note:

Due to the units being set up for special applications the following aspects should be taken into account.

It is possible there will be condensation in the louver when selecting wall mounted, ceiling or 4 ways cassette indoor unit, and in grills when duct type indoor unit are used. In those cases Panasonic cannot be responsible of any damage as a result of condensation, and installer has to provide some special insulation in those parts and also for base pan.

Due to higher running hours to maintain cooling temperature, maintenance and filter cleaning processes have to be more frequent.

The PACi system cannot control relative humidity but can manage an ON/OFF external humidifier if it is needed by using additional setting on the indoor unit.

Special applications are not tested under ErP regulation, so we do not have “official” capacity and consumption tables and energy label.