

Panasonic Low Temperature Applications

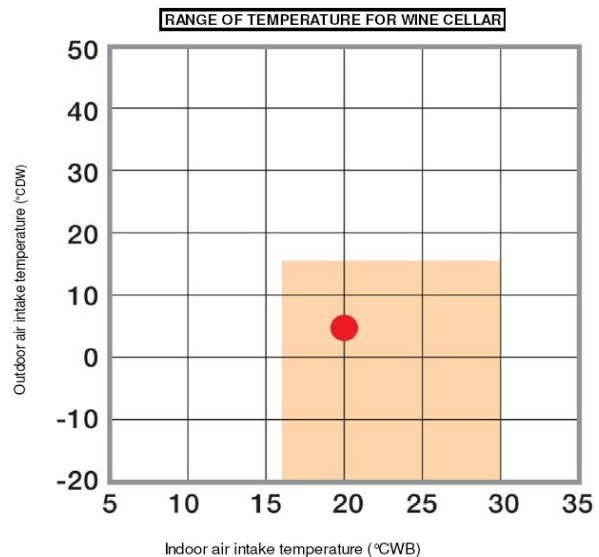
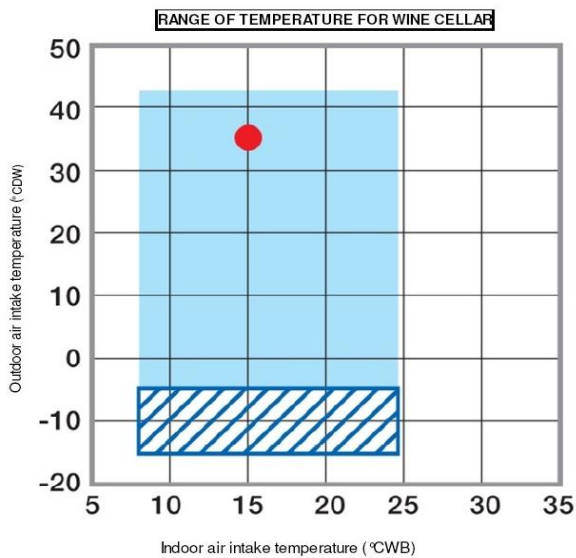
Mandatory Settings

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.

Compatibility Table:

	Single Split						Twin Split		
Cooling Capacity	4.9kW	6.9kW	9.3kW	11.6kW	13.6kW	15.5kW	13.6kW	18.5kW	23.2kW
Heating Capacity	5.6kW	8.0kW	11.2kW	14.0kW	15.0kW	22.4kW	13.6kW	22.4kW	28.0kW
PACi Elite Outdoor	U-50PE1E5	U-71PE1E5A U-71PE1E8A	U-100PE1E5A U-100PE1E8A	U-125PE1E5A U-125PE1E8A	U-140PE1E5A U-140PE1E8A	U-200PE1E8	U-140PE1E5A U-140PE1E8A	U-200PE1E8	U-250PE2E8A
Wall Mount	S-71PK1E5A	S-100PK1E5A					S-100PK1E5A + S-100PK1E5A		
Cassette	S-71PU1E5A	S-125PU1E5A	S-140PU1E5A	S-140PU1E5A			S-100PU1E5A + S-100PU1E5A	S-125PU1E5A + S-125PU1E5A	
Ducted	S-71PF1E5A	S-125PF1E5A	S-140PF1E5A	S-140PF1E5A			S-100PF1E5A + S-100PF1E5A	S-125PF1E5A + S-125PF1E5A	S-140PF1E5A + S-140PF1E5A
Under Ceiling	S-71PT2E5A	S-125PT2E5A	S-140PT2E5A	S-140PT2E5A			S-100PT2E5A + S-100PT2E5A	S-125PT2E5A + S-125PT2E5A	S-140PT2E5A + S-140PT2E5A
Large Ducted					S-200PE2E5A	S-250PE2E5A			




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. A **CZ-RTC4** hardwired controller is required to set up this system.

Firstly we have to change capacity control on the outdoor unit; we do this by cutting jumper **JP001** on the outdoor **Control PCB**.

Location of JP001 can be found on the later pages of this technical bulletin.

The **second** change is related to the indoor unit.

Wired remote controller temperature setting range has to 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 by menu 23 and 24. Press and hold the ,  and  buttons simultaneously for 4 seconds or longer.

- 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.



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- 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.

If system it 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.

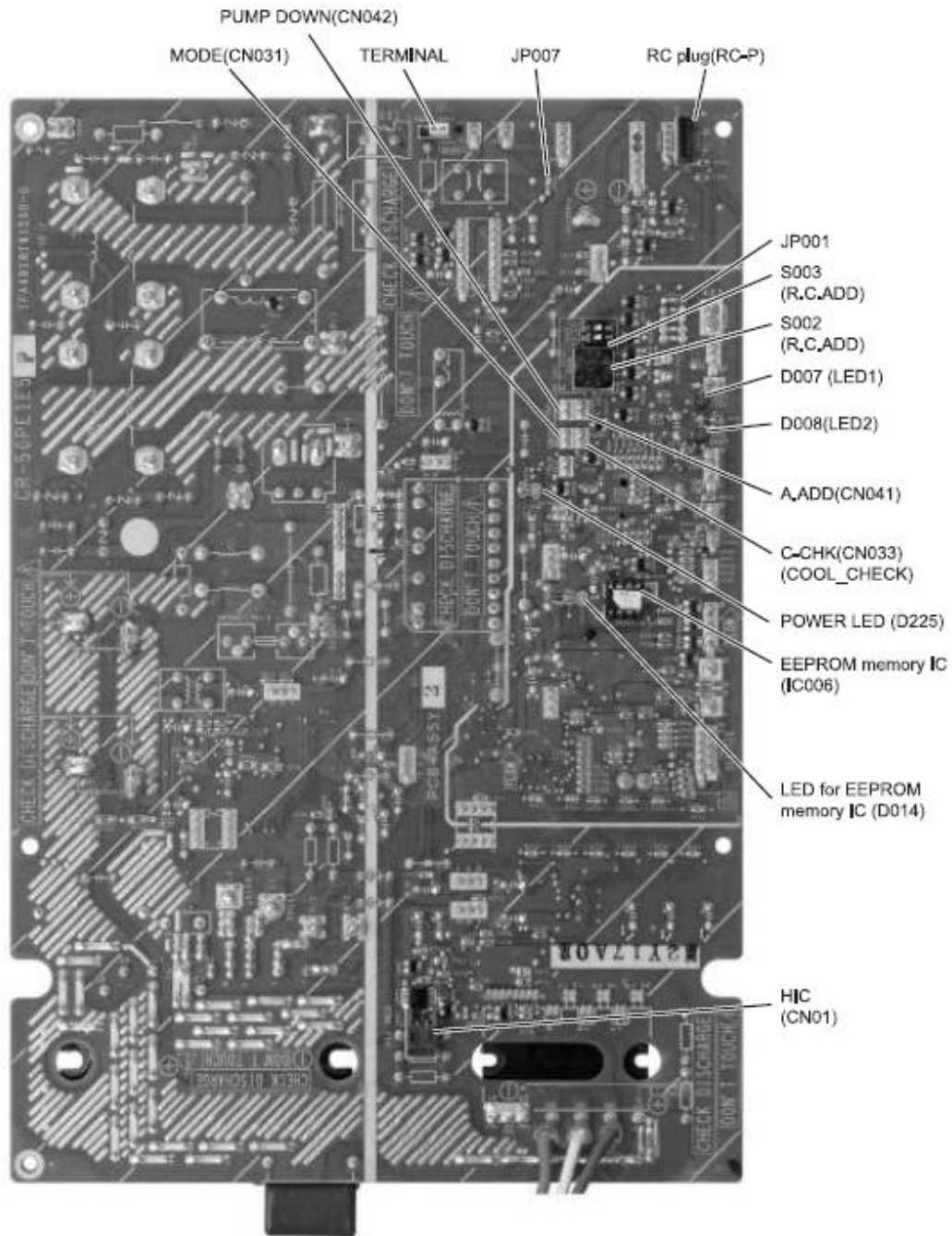
It is possible there will be condensation in the louver when selecting wall mounted, ceiling or 4 ways cassette indoor unit, and in grills when duct type indoor unit are used. In those cases Panasonic cannot be responsible of any damage as a result of condensation, and installer has to provide some special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

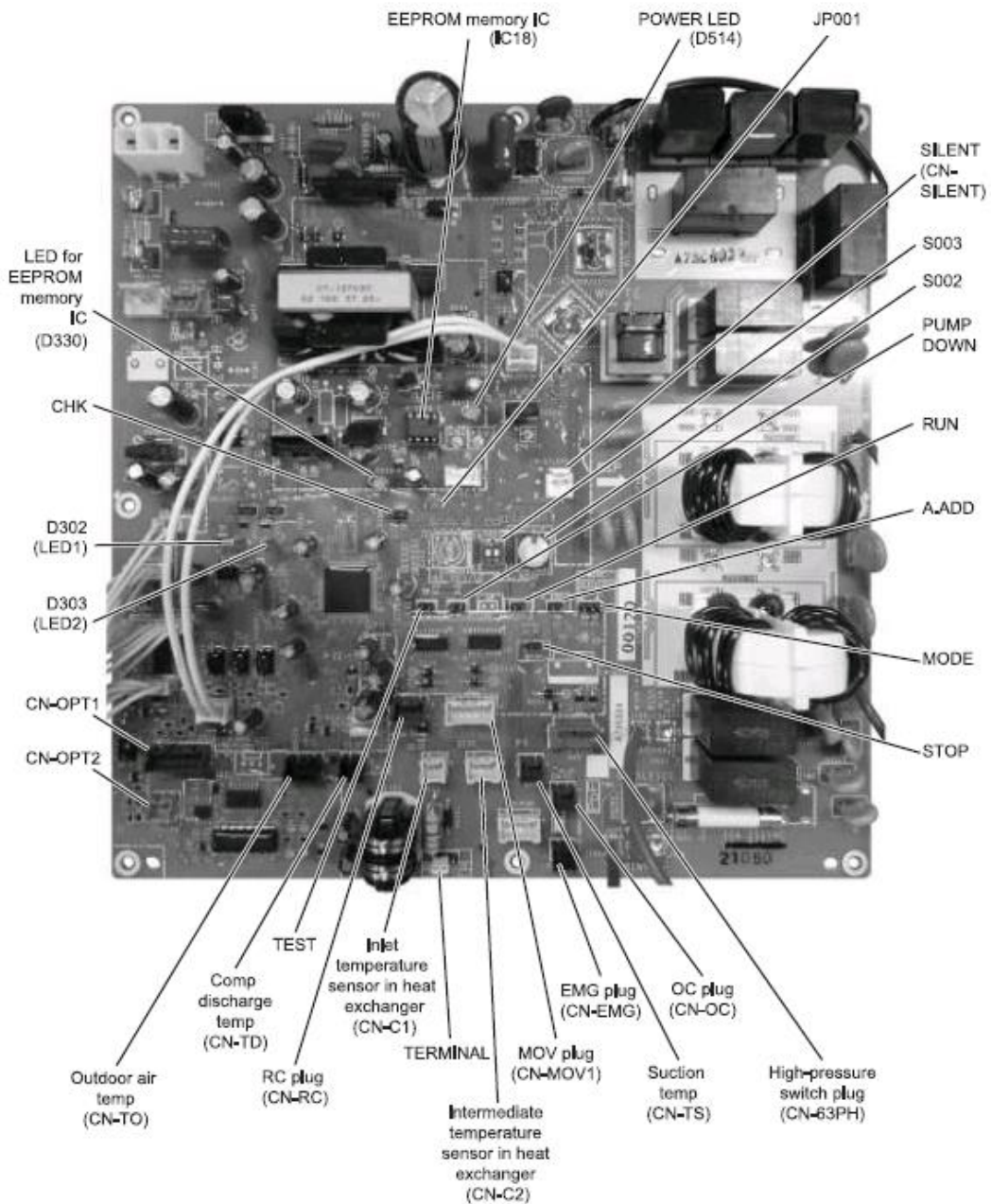
The PACi system cannot control relative humidity, but can manage an ON/OFF external humidifier if it is needed by using additional setting on the indoor unit.

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

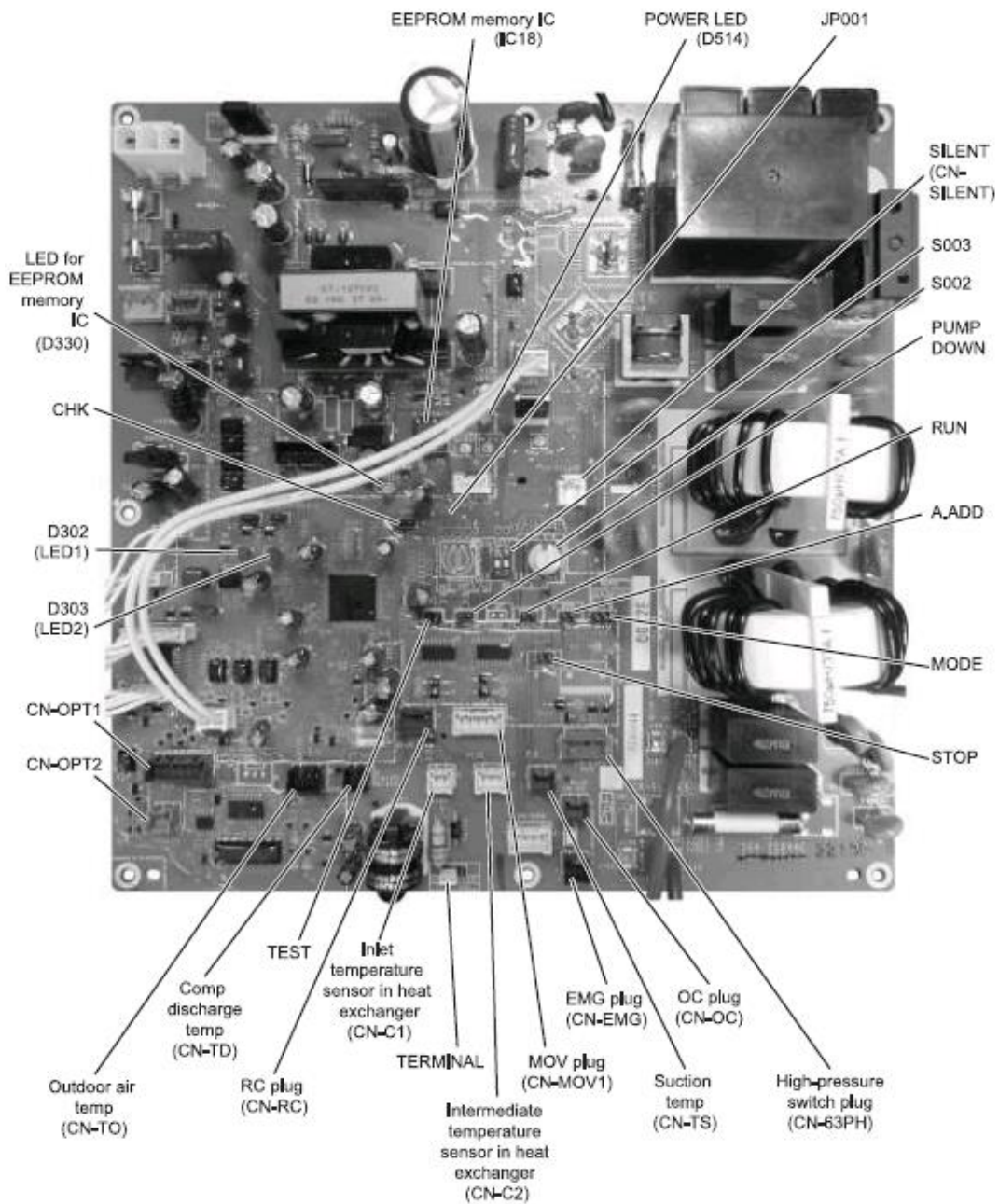
■ **CR-PCB**
CR-50PE1E5:Up side (U-50PE1E5)



■ **CR-PCB**
A746894 (U-60PE1E5, U-71 PE1E5)



■ CR-PCB
A746844 (U-100PE1E5)



■ **CR-PCB**
A746845 (U-125PE1E5, U-140PE1E5)

