



Combined Refrigerator and Freezer

Operation Manual

The following product models are applicable:

CM300AL CM300EU









CM450AL CM450EU








GCI
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	This equipment contains a refrigeration system that may be damaged if subjected to tilting or sudden impact. Do not tilt the unit more than 45° when moving, lay it on its side, or expose it to physical shock
	Please place the equipment in a dry and dust-free environment to avoid risks such as overheating, and short circuit.
	If abnormal noise, odor, or smoke is detected during operation, immediately disconnect the power supply and contact the manufacturer or supplier for assistance
	Install the equipment in a dry, well-ventilated area. Keep ventilation openings and surfaces clear of obstructions. Do not operate in poorly ventilated spaces, as heat buildup may result in damage
	Unauthorized disassembly or modification of this equipment is strictly prohibited. The manufacturer or supplier will not be responsible for any resulting damage or accidents.
	Do not store flammable or explosive materials, strong corrosive acids, alkalis, or other items unsuitable for the equipment inside the unit. The product is not designed for this application.
	When storing toxic, harmful or radioactive materials, please use the equipment in safe areas. Improper use may cause harm to human health or environment.
	Maintain a minimum clearance of 30 cm or 12 inches between the back, left, and right sides of the cabinet and any walls to ensure proper operation, ventilation, and heat dissipation. Ensure that the air inlets and outlets remain unobstructed

	Note: Failure to observe the precautions may result in personal injury or equipment failure and related property losses.
	Only use the door handle when opening or closing the door. This practice will avoid the potential of pinching fingers.
	When restarting the equipment after a power failure or shutdown, verify the system settings before operation to prevent potential damage to stored items.
	Handle the equipment carefully to prevent tipping, which may cause equipment damage or personal injury.
	If transporting the equipment is necessary, only lift the unit from the base and do not tilt the equipment beyond 45° and ensure the equipment is upright 24 hrs before operating. Operate the equipment only in safe, suitable environments, as improper use may pose risks to human health or the surrounding environment.

4.3 Preparation Before Use


1. Remove the outer packaging of all products (including the protective foam in the packaging box)



Warning: Don't put the plastic bags within the reach of children, so as to prevent suffocation accidents.

2. Inventory of accessories: Please check the accessories and materials according to the packing list.
3. Cleaning: Clean the product once before use.
4. Install the wall mounting brackets (If applicable ,you can refer to Figure I).
 - a. Remove the two mounting brackets and check for consistency.
 - b. Remove the bolts from the mounting brackets and attach to the back of the refrigerator.
 - c. Connect the mounting brackets to the wall and the back of the refrigerator. Verify the refrigerator is secure and stable.

7. After the unit is placed in the designated location, it must be secured. If the front casters are equipped with brakes, press down the brakes. If leveling feet are provided, lower the leveling feet by turning them downward (see Figure I). The detailed operation procedure is as follows:

There are adjustable anti-skid leveling feet in front of the two front casters at the bottom of the equipment. Please use accompanying tools  to turn the leveling feet downwards after the equipment is placed securely, so as to stabilize the machine.

When you need to move the equipment, please turn the leveling feet upwards. Do not move it forcibly so as to avoid damage!

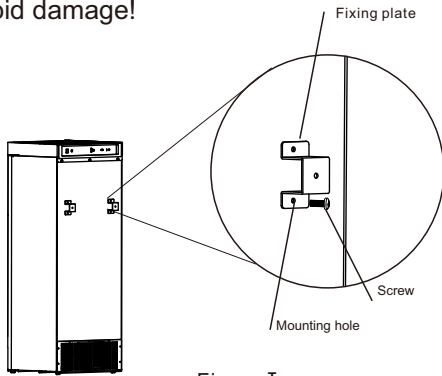


Figure I

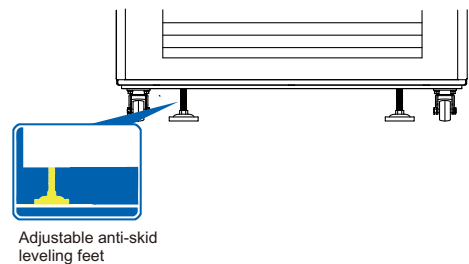





Figure II

4.4 First Power-on

When using the equipment for the first time, please follow these steps:

1. Ensure the equipment is level, clean and in the upright position for a minimum of 24 hours.
2. With the unit deenergized and in the off condition, connect the AC power cord to a dedicated outlet with appropriate specifications.
3. Toggle the main power and battery backup switches to the ON position. Upon the initial power up, the display will initiate a startup sequence (all digits counting from 000.0 to 999.9). Once completed, the display may flash LOF and sound an audible alarm. LoF indicates that the internal data recorder is not activated. To initialize the recorder, press the  and  keys for 3 seconds. "LoF" will no longer appear in the display and the recorder has started.

Note: All Freezers and Refrigerators are pre-set to default temperature set point values. (See Reference Parameter Display table).

4. The main display may flash H1, indicating a high temperature alarm. If present, the audible alarm will sound. Press  to silence the audible alarm while the operating temperature drops below the high alarm default value. See function settings to change alarm values.
5. Allow the equipment will reach the set point value and operate at set point for a period of 24 hours before loading with product.
6. Load items in small batches not exceeding 1/3 of the cabinet volume at a time. Ensure that the equipment is running properly for more than 12 hours before putting in the next batch of items).

4.5 Operation after Power Failure

1. All products are equipped with a memory function that will preserve all preset values in the event of an AC power failure.
2. To avoid potential damage to the compressor, it is recommended to wait at least 5 minutes before restarting the unit.
3. While this equipment is designed to operate reliably under specified conditions, the manufacturer cannot be held responsible for any loss or damage to stored items resulting from a power failure.



Notes:

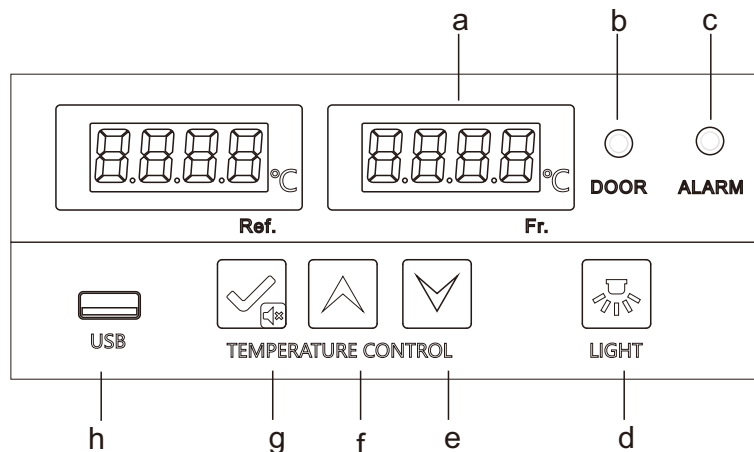
- ◆ Before placing items into the equipment, verify the temperature range meets the storage requirements of the items to prevent potential damage. When loading items, ensure that the air inlet and outlet vents remain unobstructed to maintain proper airflow.
- ◆ Due to the refrigeration lag and variations with respect to product loading, the temperature display on the main panel may temporarily differ from the set point.
- ◆ Avoid changing the setpoint frequently, as this may prevent the unit from reaching the desired temperature.
- ◆ When loading product, allow for 1" of clearance of space to allow for adequate air flow and circulation. Allow for clearance from the internal temperature sensor, as this may affect temperature stability and control accuracy.
- ◆ Electrical appliances without production license shall not be used inside the equipment.
- ◆ The bottom (floor) of the equipment is not intended as a storage location. Only store items on shelves.
- ◆ Items with high or low moisture content can affect the internal humidity of the cabinet; therefore, it is recommended that all items be properly sealed. Additionally, frequent door openings or improper door closure may impact the cabinet's humidity levels.



Warning:

- ◆ Modification of the equipment is strictly prohibited.
- ◆ Keep all ventilation openings in the enclosure clear of obstruction.
- ◆ Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.

6. Operating Instructions




1. Function description

- a. is temperature display window, which displays the average temperature inside the upper refrigerator chamber and lower freezer chamber of the cabinet body in °C under normal operation (the lower chamber temperature range of YCD-EL series is -10~-26°C); Different prompt characters can be displayed in the setting state (see below for details).
- b. Door opening indicator: When the refrigerator chamber door is opened, the indicator lights up. After more than 1 minute, the door opening alarm indicator light will be on and the buzzer triggered, displaying "door".
- c. Fault indicator light: When the product runs normally, the indicator light is off; The indicator light is on for operation abnormality.
- d. "LIGHT:" after the equipment is powered on, the light is off by default, and the on-off of the light can be adjusted by the on-off key. When the light is out, it will be turned on by opening the door and then turned off by closing the door; When the light is on, it will keep on if you open or close the door. This equipment has two functions: automatic lighting and manual lighting. In the automatic lighting state, the lighting lamp will be on immediately when the door is opened, and the lighting lamp will be off after a 5 seconds delay; The user can also turn on the lighting lamp manually. In this case, the lighting lamp is always on (the indicator light above the key is on) without being controlled by the door opening and closing. Only when the manual lighting is turned off by pressing the light switch key again can the lighting lamp be automatically on (the indicator light above the key is off).
- e. : In parameter setting mode, reduce the parameter value. For example, when adjust the set temperature, press this key reduce the set temperature. When adjust the parameter value, long press the down button, and the parameter will decrease rapidly.
- f. : In parameter setting mode, increase the parameter value. For example, when adjust the set temperature, press this button to increase the set temperature value. When setting the parameter value, long press the up button, and the parameter will increase rapidly. Under normal conditions, long press the up key for 3 seconds to import the data of the USB flash drive in 12 months.
- g. : is the set/mute key; in case of no alarm state and key unlocked state, press display the ambient temperature for 5s and then return to normal display; in the unlocked state, press for more than 3s, can enter the user menu. When buzzer is triggered (including cabinet including high temperature alarm, door opening alarm, sensor fault alarm, etc.) and in the button unlock state, press for the first time, and the buzzer stops ringing, and the ambient temperature is displayed for 5s, after which the normal display is resumed (pressing the mute button is only to turn off the buzzer for alarming this abnormal state, for example trouble removal, and the buzzer will be triggered next time for any abnormality). Then press again, trigger the buzzer, display the ambient temperature for 5s, and then resume the display of cabinet temperature and alarm state. In the key unlock state, can be used as a setting key.




In unlock state and parameter setting mode, press this key to display parameter values and parameter names. If the pressing time is longer than 3 seconds, save the settings and return to the normal interface.

h. USB interface

Automatic export: when the U disk is connected to the USB interface, the recorder buzzer will chirp once and display "on". PDF files of data that not currently exported will be generated in the U disk. After data transmission, the buzzer will chirp once again and display "End".After 6s, it will return to normal display.





Manual export of USB data: While in the key unlock state and when the USB flash drive is connected and the file is not being generated, press the up key for 3 seconds, and "d01" will appear in the display. Press the key up or down key to adjust "d00~d12," and press  key to cancel the file generation (d00) or generate the PDF file of the record data of the previous 12 months .(The temperature and humidity data recorded in the PDF file represent the average temperature and humidity inside the chamber.“Invalid” indicates invalid data, a code error, a communication error with the data logging module, or that the sensor reading is out of range.)







 **Note:** When there is less data, "USB," "on" and "End" prompts are not displayed.

 **Note:** When the alarm of the digital tube flashes and displays "LoF," the recorder is not started; Meanwhile press  and  key for 3s, and "LoF" disappears, the recorder is started.

2. Function setting

- 1). After powering on, the machine will enter into the working state;
- 2). User parameter settings:

Unlock: Under normal operation, press  and  key for 3 seconds at the same time, and the digital tube in the upper chamber will display "PS1" and the digital tube in the lower chamber will display the parameter code "0000". Press , enter the password "0005" (when entering the user menu password, enter "0099" to restore the key lock password to the default "0005."), and unlock it. Unlock and press  key for 3s, and the digital tube will display the parameter code "PS1" and enter the setting and adjustment parameters.

- ① Use  to scroll the parameters;
 - ② Use  or  to increase or decrease the value;
 - ③ Use  to temporarily store the modified values and return to the display parameters;
 - ④ If other parameters are modified, repeat steps ①~③.
 - ⑤ Press  for more than 3s, save the modified parameters and return to the display parameter category.
- 3). Press  for more than 3s, or press no key in 60S to exit the parameter setting program.

No.	Menu item	Parameter range	Suggested settings	Remarks
1	b1	—	—	Hardware version
2	b2	—	—	Software version
3	Set1	0.0~10.0	5.0	Refrigerator temperature setting

3. Parameter display

No.	Menu item	Parameter range	Suggested settings	Remarks
4	H01	0.0~10.0	5.0	Set value of high temperature alarm set+H; when H = 0, High temp alarm is disabled; When the alarm is over high temp alarm set, H01 will be displayed on the controller
5	L01	0.0~10.0	5.0	Set value of low temperature alarm set-L; when L = 0, low temp alarm is disabled; when the alarm is below low temp alarm set, L01 will be displayed on the controller
6	Set2	-10~-26 -10~-40	-23 -40	Freezer temperature setting
7	H02	0.0~10.0	5.0	Set value of high temperature alarm set+H; when H02 = 0, High temp alarm is disabled; When the alarm is over high temp alarm set, H02 will be displayed on the controller
8	L02	0.0~10.0	5.0	Set value of low temperature alarm set-L; when L02 = 0, low temp alarm is disabled; when the alarm is below low temp alarm set, L02 will be displayed on the controller
9	Pt	0~240 min	20	Print interval
10	tH1	20.0~50.0°C	40	Upper limit of ambient temperature alarm
11	P1	1. Automatic heating mode 1 2. Automatic heating mode 2 3. Automatic heating mode 3 4. Always on 5. Always off	1. (Set to 4 when the door is with condensation)	Mode 1: It shall be judged as once after the door is opened and closed once and heated for 5min (time setting). If the door is opened and closed again during the heating period, the heating time will be updated again; Mode 2: After the compressor is running. Heater on; When the compressor stops, the heater is delayed for 1 minute for turn-off; Mode 3: When the humidity in the cabinet is more than 80%, the door heating is on, and when the humidity in the cabinet is moderately less than 60%, the door heating is off; Mode 4: Door heating is always on; Mode 5: Door heating is always off.
12	PS1	0000~9999	0005	User menu password settings
13	MAX	—	—	The highest temperature since last clearance
14	NIN	—	—	The lowest temperature since last clearance
15	CLR	—	—	Clearance of the Max and Min temperature records
16	CF	C/F	—	Temperature unit selection, C-degrees Celsius, F-degrees Fahrenheit

Quick setting of time after power on

After the power-on self-test on the display board is completed, the quick setting menu is displayed.


Menu item	Menu	Menu description	Set range	Default	Unit
Quick Settings menu	n	Set logger module time - year	10~50		/
	y	Set logger module time - month	1~12	--	/
	r	Set logger module time - day	01~31	--	/
	S	Set logger module time - hour	00~23	--	/
	F	Set logger module time - minute	00~59	--	/
	Pt	Print interval	0~240	20	min
	SCY	Temperature data recording period	0~240 0: shielded recorder	10	min

If there is no operation for 60 seconds under the quick setting menu, it will automatically exit the quick setting menu and return to normal display.






4. Alarm display

Alarm Code	Default Description
H01	Upper refrigerator chamber high temperature alarm
L01	Upper refrigerator chamber low temperature alarm
H02	Lower freezer chamber high temperature alarm
L02	Lower freezer chamber low temperature alarm
H03	High ambient temperature alarm
door	Door opening alarm
PF	Power failure alarm
bL	Low battery alarm
Er	The recorder is not connected
LoF	The recorder is not started
EE	Communication failure
E1.2.3..	Sensor (NTC) failure alarm

6. Alarm Demonstration Function

Under "key lock state" Long press  the digital tube displays the temperature value and alarm code of the over-temperature alarm, and the buzzer beeps.

7. Maximum and minimum Temperature display

Under the key lock state, short press the  to view the maximum value: after blinking 3 times, the maximum value menu and the maximum temperature displays; short press  to view the minimum value, after blinking 3 times, the minimum value menu and maximum temperature displays. Long press combination key 3 seconds  +  +  to clear the current maximum and minimum value data, at the same time, the buzzer beeps a reminder.

7.3 Maintenance, Replacement, and Recovery of Rechargeable Batteries

Battery installation position: top of the cabinet and bottom inside the electrical box.

1. Battery maintenance

- ① The equipment should be connected to AC power regularly (generally once a month) and for a period of 24 hours to refresh the battery charge.
- ② If discontinuing the equipment, the battery switch should be turned to the off position to prevent capacity loss or permanent damage.
- ③ The main power switch must be in the off position during a long-term power outage or during transportation, otherwise long-term discharge causes power loss in battery and even permanent damage to the battery, and the display is abnormal after re-energizing.
- ④ The expected service life of the battery is approximately 2–3 years. Improper use, power loss, or end-of-life conditions may trigger a low battery alarm. While refrigeration performance will not be affected, the alarm functions may fail to operate. If this occurs, please contact your local distributor's after-sales service team for battery replacement.

2. Battery replacement and recovery

- ① Turn off the power switch and pull the power plug from the outlet;
- ② Remove the screws at the top rear of the unit to access the interior control panel area. (Note: The electrical box can only be opened by a qualified engineer or maintenance person as this is a high voltage area with risk of electrical shock. Turn off the power supply, unplug the AC power and turn off the main power switch.
- ③ Remove the connecting cables from the battery, starting with the red (+) first, then the black(-) note: the red cable is connected to the red positive (+) post on the battery and the black cable is connected to the black negative (-) post on the battery.
- ④ Use a screwdriver to remove the fastening screws on the battery fixing plate and take out the battery. Replace with new battery. Place fixing plate and reconnect cables starting with (-) black cable to black post, then (+) red cable to red post.
- ⑤ Properly dispose the used battery at a local battery recycling agency.

Tips:

In order to effectively ensure that the battery replacement meets the requirements of the control system and avoid the influence of improper operation on the system, please contact our after-sales personnel for replacement or guidance.

When the circuit is short or overloaded, the overload protector will disconnect the power supply of the device.



Production Date: See nameplate on the freezer body
Prepared in: June 2026
Material Code: