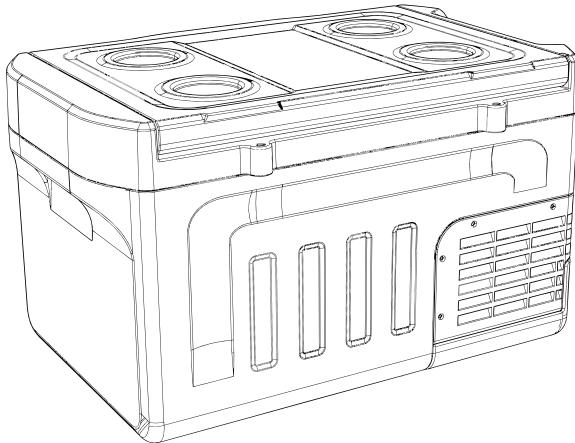


Car Refrigerator

INSTRUCTION MANUAL

SKU: CF014-20BL-SAZX / CF014-30BL-SAZX

Model: ZBD-20 ZBD-30



For Customer Service Support:
support@homyd.com

Congratulations

Dear Customer:

Thank you for purchasing one of our products.

Our goal is to provide you with superior service. If there is anything missing from or wrong with your order, or if you have any questions about using our ice maker, PLEASE contact us.

Email: support@homyd.com

The team is available 24/7 to address your questions, comments, and concerns. Your satisfaction is our ultimate goal. We want to make everything right so you'll share your positive experience with other shoppers on Amazon.

**If you experience any problems, please send an email to
support@homyd.com**

Our mission:

- * To be the most trusted appliance brand.
- * To create practical, compact appliances that better your life.

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I PRODUCT FEATURES

Cooled by a high-efficiency DC compressor; high reliability, long life, high energy efficiency, and quick cooling.

Fresh and freeze modes can be converted; foam door, camping look, elegant design, easy operation.

Inner concave handholds on both sides of the box.

Comes with 2 Φ 8mm jacks, which can be used for fastening a refrigerator, hanging accessories, etc.

LED lighting in the cooler compartment for clearly seeing your foodstuffs.

Bottom drain plug, for easy draining of condensate water.

Vehicle, home, or outdoor use; can be operated from either a DC12V/24V vehicle cigarette lighter or an AC/DC adapter supplied by AC electric mains, or operated from DC12V storage battery or solar panel cell through a voltage regulator.

Compressor time-delay protection function.

Memory function when powered off.

Three-level battery monitor to protect the vehicle battery.

Wide temperature setting range: From minus 20°C (-4°F) to above 20°C (68°F).

TIPS FOR ENERGY SAVINGS

Keep the unit doors closed as much as possible, particularly in warm/humid conditions.

Maintain adequate ventilation around the back and sides of the unit, and avoid direct sunlight.

Allow warm foods to cool to room temperature before putting them in the unit.

Do not open the cooling device more often than necessary.

Excessive ice build-up will increase energy consumption. Defrost the unit when ice/frost is $\frac{1}{4}$ " thick.

IMPORTANT SAFETY INSTRUCTIONS

Before you use your vehicle refrigerator and freezer unit, please read this owner's manual carefully.

Use this appliance only for its intended purpose as described in this owner's manual.

- suitable for camping use;
- this appliance should not be exposed to rain.

WARNING:

This appliance is intended to be used in household and similar applications such as

- staff kitchen areas in shops, offices, and other working environments;
- farmhouses and by clients in hotels, motels, and other residential environments;
- bed and breakfast environments;
- catering and similar non-retail applications.

Do not use an extension cord as this can negatively affect the performance of the unit. If you must use an extension cord, use 18AWG minimum size and rated no less than 1875 watts.

When transporting the refrigerator, keep the unit in the upright position. Do not tilt the appliance beyond 45° or place the unit in an upside-down position. Do not tip over.

Do not touch the cold surfaces while the appliance is operating, especially not with wet hands, because your skin may stick to the surface.

It is recommended that the refrigerator be positioned away from any combustible sources such as gas, petrol, alcohol, lacquer, or oil, etc. Combustible products should not be stored in the refrigerator under any circumstances.

if the unit fails to cool properly, dispose of spoiled food as needed.

Unplug the unit before cleaning or before making any repairs. NOTE: If for any reason, this appliance requires service, we strongly recommend that a certified technician perform the service. Repairs made by non-qualified personnel will void the warranty.

Do not defrost the appliance with other electric devices (hair dryer, etc.), and never scrape the ice or frost layer with sharp tools. Warning: Do not damage the refrigerant circuit.

This appliance is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

IMPORTANT SAFETY INSTRUCTIONS

Do not run the cord over carpeting or other heat insulators. Do not cover the cord. Keep cord away from traffic areas, and do not submerge in water. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person to avoid injury. Repair or replace immediately all electric service cords that have become frayed or otherwise damaged. Do not use a cord that shows cracks or abrasion damage along its length, the plug, or the connector end.

WARNING:

Keep ventilation openings, in the appliance enclosure or the built-in structure, clear of obstruction.

WARNING:

Do not use mechanical devices or other means to accelerate defrosting, other than those recommended by the manufacturer.

WARNING:

Do not damage the refrigerant circuit.

WARNING:

Do not use any other electrical appliances inside the food storage compartments of the

Do not operate your appliance in the presence of explosive fumes.

WARNING

Do not use a flame or light a fire near the unit.

CAUTION

Risk of Fire or Explosion. Dispose Of Property in Accordance with Federal or Local Regulations. Flammable Foam Material Used.

DISPOSAL OF YOUR UNIT



Warning: Risk of fire / flammable materials

Please act according to local regulations regarding disposal of the appliance due to its refrigerant gas.

Before you scrap the appliance, please take off the doors to prevent children trapped.

DANGER: Risk of child entrapment. Before you throw away your old refrigerator or freezer:

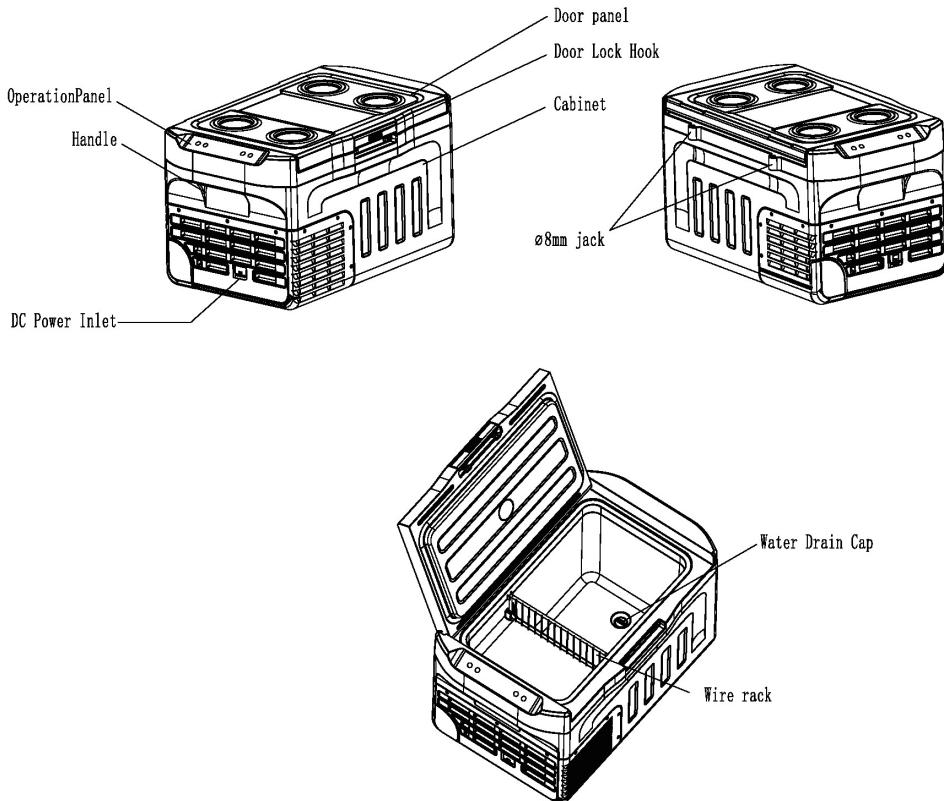
Take off the doors.

Leave the shelves in place so that children may not easily climb inside.

I RECOMMENDED TEMPERATURES FOR STORED ITEMS

1. Fruits and vegetables: 5°C (41°F) ~ 10°C (50°F)
2. Fast food and pastries: -3°C (27°F) ~ 4°C (39°F)
3. Seafood, aquatic products: -11°C (12°F) ~ -4°C (25°F)
4. Frozen meat: -18°C (0°F) ~ -12°C (10°F)

IDENTIFICATION OF PARTS



I SPECIFICATIONS

SKU	CF014-20BL-SAZX	CF014-30BL-SAZX	
Model No	ZBD-20		ZBD-30
Capacity	20L		30L
Electrical Safety	III		
Power Supply	100~240V~ 50/60Hz 1Ph(by AC/DC adapter)	DC12V  (by Car Cigarette lighter)	DC24V  (by Car Cigarette lighter)
Electrical Rating	0.7-1.6A	5A	3A
Foaming	Cyclopentane		
Refrigerant	R134a 2.0 Oz/56 g		R134a 2.1 Oz/60 g
Net	11 kg		13.3 kg
Product	595*372*345		595*372*415

I HOW TO OPERATE THE UNIT

WARNING!

- Do not operate the cooling device if it is visibly damaged.
- If the power cord of the cigarette lighter or AC/DC adapter is damaged, it must be replaced by customer service to prevent safety hazards.
- Never pull the power cord to disconnect the unit from an outlet. Grasp the plug or connector directly and pull it from the outlet.
- Keep the power cord away from heated surfaces.
- This appliance may only be repaired by qualified personnel; improper repair can lead to considerable hazards.
- Cleaning and user maintenance must not be carried out by children without supervision.
- Children must be supervised to ensure that they do not play with the cooling device.
- Always keep and use the appliance out of reach of children under 8 years old.
- Do not store any explosive substances such as spray cans with a flammable propellant in the cooling device.
- Avoid placing the appliance near an external heat source or in direct sunlight, and do not expose the appliance to rain or excessive moisture.
- Close the appliance lid immediately after storing any foodstuffs to maintain the internal temperature of the unit.
- Do not place the appliance upside down, on its side, or 15° or more off level.
- Make sure the appliance is placed on a flat, level, and strong enough solid surface, on a floor or in a vehicle.
- When positioning the appliance, ensure that there is at least a 6" clearance around the unit. This will allow for adequate ventilation of heat from the compressor.
- Do not pour water or any beverage directly into the unit; only cool canned or bottled drinks and packaged foods.
- At all times, be sure that the electric supply voltage is correct. When using outdoors, if the appliance is connected to the storage battery, the positive pole and negative pole must be correctly connected.
- After transportation, moving the unit, or for the first use, please wait for a least 24 hours to plug in the unit.
- Make sure to lock the cabinet door by the lock hook to avoid leaving the door ajar when the unit is running, to maintain cooling and save electricity.
- Do not move the unit when running, and do not run the unit when driving on a rough road surface, which will produce vibration and excessive noise.

I STARTING THE UNIT

Important: If the unit is brought in from the outdoors during winter, give it a few hours to warm up to room temperature before plugging it in.

1. Remove the packaging material.
2. Clean the unit thoroughly. Wipe the outside with a soft dry cloth, the interior with a clean moist cloth.
3. Check that the voltage specification on the rating label corresponds to that of the power supply.
Connect the unit as follows:
 - Connect the DC cigarette lighter (Fig. 1) to the cigarette lighter socket in the vehicle.
 - Or connect the unit via AC/DC adaptor (Fig.2) and then connect the AC power plug of the AC/DC adapter to the AC mains supply.



Fig. 1



Fig. 2

4. It is recommended to put wines, beverages, and other food into the cooler compartment after waiting at least two hours after the power is turned on.

Note: Because this unit can be used as a wine or beverage cooler, fresh food refrigerator, or freezer, be sure to select the proper temperature setting for the type of stored foodstuffs.

I OPERATION PANEL FUNCTIONS



Temperature setting button: “+” for increasing the temperature one digit
“-” for decreasing the temperature one digit;

ON/OFF button: press “” button to turn on or turn off the unit;
When the unit is on, to turn off the unit, you need to press this button for more than 3 seconds.
Otherwise, when the unit is off-state, press this button once, and the unit will begin to run immediately.

Function setting button: “SET” button to set the internal advanced parameter program;
Press this button for more than 4 seconds to enter the internal parameter set program.

HH/ECO LED light: This is a two-color light; GREEN means “ECO” compressor running mode, and RED means “HH” compressor running mode.

RUN LED light: This is a two-color light; when the unit is off-state with DC power on, it will be RED, and when the unit is turned on and the compressor is running, it will be GREEN.

°C and °F LED light: Temperature unit light, for Centigrade or Fahrenheit units selected.

Temperature Digit Display Window: Displays the cooling compartment's actual or set temperature value, and advanced parameter set value.

I HOW TO OPERATE THE UNIT

Start the unit

Connect the unit to the DC power supply; whether or not the unit was turned on when it was last supplied by DC power, the unit will come on at once. The actual temperature inside the cooling compartment will be displayed, and the compressor will start to run after a short time delay.

Note: To turn off the unit, press the “” button for more than 4 seconds. Short-press the power button “” again to turn on the unit.

Adjust the temperature setting

After starting up the unit, you can set the temperature to your desired value by pressing the “+” or “-” button, the range is from -4 F-68 F. For each press of the “+” or “-” button, the temperature digit will change by 1, and if you press the “+” or “-” button continuously, the temperature digit will continue to change.

Common temperature settings:

Cosmetics storage (17-68°F), wine (50 °F), fruit (39-43°F), beverage or water (36-41°F), beer (32-39 °F), meat (14°F), ice cream (5°F), steaks (0°F), fish (0°F).

Pay attention to the recommendations for storing medications, and follow the requirements for specific foodstuffs.

When the temperature is set below 32 °F, do not store glass bottled drinks or beer, lemonade, or soda cans, as the cans or glass bottles may shatter or explode.

Advanced parameter setting

Long-press the “SET” button for more than 4 seconds; the temperature digit display window will flash to enter the advanced parameter set program:

(1) Low voltage protection battery monitor setting:

The unit is equipped with a 3-level battery monitor that protects your vehicle battery against excessive discharging when the unit is connected to the onboard DC supply. This will ensure your unit works normally and protect the battery of your vehicle.

If the cooler is operated when the DC output of the vehicle cigarette lighter socket is switched off, the cooler will switch off automatically as soon as the supply voltage falls below the set level. The cooler will switch back on once the battery has been recharged to the restart voltage level.

At the “H3” setting, the battery monitor responds faster than at “H1” or “H2”.

Monitor Level		H1 (LOW)	H2 (MIDDEL)	H3 (HIGH)
12V	Switch-off voltage	9.6V	10.2V	11.2V
	Restart voltage	10.9V	11.4V	12.4V
24V	Switch-off voltage	21.3V	22.3V	24.1V
	Restart voltage	22.7V	23.7V	25.2V

I HOW TO OPERATE THE UNIT

Suggestions:

When the cooler is powered by the battery of the vehicle, set the battery monitor at level "H3"; if the cooler is connected to a separate supply battery or the AC/DC adapter from the AC mains supply, the battery monitor level "H1" will be suitable.

Because of the voltage difference of DC power output between different vehicles, if the low-voltage protection activates, and the "F1" displays in the temperature display window, you can adjust the monitor level to one lower level.

Note: If the cooler is still running after the vehicle's engine is turned off, the protection level must be changed to H3 (high); otherwise, it may consume too much electricity to allow the vehicle to start.

How to set the protection level

The default setting for the low-voltage protection battery monitor is H2. When the cooler is on, after long-pressing the "SET" button for more than 4 seconds, the last setting, such as "H1", "H2", or "H3," will flash in the temperature display window.

While flashing, touch the button "+" or "-" to select the battery monitor level "H1" or "H2" or "H3" to protect your vehicle battery. The selected monitor level "H1" or "H2" or "H3" will flash in the display window for a few seconds before it returns to the temperature display.

(2) Energy saving mode setting:

This cooler has two compressor running modes:

"HH"--- normal running mode;

"ECO"--- Energy-saving running mode, which means the compressor will run at a lower speed and reduce energy consumption.

While the monitor level "H1" or "H2" or "H3" is flashing in the display window as above, again short-press the "SET" button; the last setting of the compressor running mode, "HH" or "ECO", will flash; touch the button "+" or "-" to change the compressor from "HH" to "ECO" or from "ECO" to "HH".

The recommendation is to set the unit to **ECO** mode when storing fresh food and set the unit to **HH** mode when freezing foods or during high ambient temperatures.

The selected mode "HH" or "ECO" will flash in the display window for a few seconds before it returns to the temperature display. Then the selected mode will be saved in memory.

(3) Change temperature unit—Centigrade and Fahrenheit

During compressor running mode, with "HH" or "ECO" flashing in the display window, again short-press the "SET" button; the temperature unit " $^{\circ}\text{C}$ " or " $^{\circ}\text{F}$ " will flash, touch the button "+" or "-" to change the temperature unit from " $^{\circ}\text{C}$ " to " $^{\circ}\text{F}$ " or from " $^{\circ}\text{F}$ " to " $^{\circ}\text{C}$ ".

The selected temperature unit, " $^{\circ}\text{C}$ " or " $^{\circ}\text{F}$," will flash in the display window for a few seconds before it returns to the temperature display. Then the temperature unit will be saved in memory.

(4) With no button pressed for about 10 seconds, the unit will automatically exit the above advanced-parameter set program.

I ERROR CODE DISPLAY

When the unit is running, if an ERROR Code is displayed in the temperature display window, please refer to the following table:

Error Code	Possible Reason	Suggested Solution
F1	DC Input voltage is too low	Check the battery voltage or adjust the Battery Monitor Level.
F2	Ventilating fan fault	Check if the ventilating fan is blocked or short-circuited.
F3	Compressor starting fault	Disconnect the device from the power supply for 30 minutes, and restart the device.
F4	Compressor minimum running speed fault	Change the working mode via the device control panel
F5	Overheating warning of the driving PCB of the compressor	Move the device to a well-ventilated environment.
F6	Compressor driving PCB fault	Change a new driving PCB for the compressor
E0	Actual temperature sensor short-circuit	Connect or replace the sensor
E1	Actual temperature sensor broken or disconnected	Reconnect the sensor or replace with a new sensor
E2	Door is not closed appropriately, or the air circulation around the unit is blocked	Lock the door of the cabinet by checking the door lock hook. Clear the blockage around the unit.

I DEFROSTING YOUR UNIT

If you set the unit to freezing mode by lowering the temperature, ice will accumulate on the inner wall of the storage compartment when the unit has been running for a long period.

When the ice is about 2" in thickness, defrosting is necessary to maintain cooling efficiency.

Follow the steps below to melt the ice:

1. Turn off the unit and disconnect the DC supply from the DC power source.
2. Remove all items from the unit.
3. Allow the ice to melt completely.
4. Drain out the water by unplugging the water drain cap; then use a dry soft cloth to dry the inner wall completely.
5. Connect the DC supply to turn on the unit.

WARNING: Do not use mechanical devices or other means, such as a sharp object, screwdriver, or electric hair dryer, to accelerate the defrosting.

NORMAL OPERATING SOUNDS AND FUNCTIONS

It is normal to hear gurgling sounds caused by the flow of refrigerant when the compressor running.

The noise emitted by the cooling fan on the condenser is a normal function.

WHEN NOT USING YOUR UNIT FOR A LONG PERIOD

1. Remove all items from the unit.
2. Turn off the cooler.
3. Disconnect the DC power plug from the DC power inlet.
4. Leave the door open a little, which will prevent odor build-up.

CLEANING YOUR UNIT

1. Always disconnect the DC power plug from the DC power inlet before cleaning.
2. Clean the inside of the unit whenever necessary using a solution of warm water and baking soda (1 tablespoon to every 2 liters of water). Dry with a soft cloth.
3. Do not use a steel brush or harsh detergent to clean the inner liner.
4. The condenser should be cleaned by a qualified technician if necessary.
5. Make sure that the air inlet and outlet vents on the unit are free of any dust and dirt.

I TROUBLESHOOTING

Fault	Possible cause	Suggested remedy
The unit does not function, LED light does not glow.	<p>No voltage was detected in the DC power supply.</p> <p>The fuse in the cigarette lighter or in the unit is blown.</p>	<p>In most vehicles, the cigarette ignition port must be turned on before power is supplied to the DC power outlet.</p> <p>Replace the fuse with a new one with the same electrical rating.</p>
The unit does not cool (plug is inserted, and the operation panel displays normally)	Defective compressor or refrigerant leakage	Check whether the compressor is running. If not, this can only be repaired by an authorized repair center.
The unit does not cool (plug is inserted, display screen shows Error Code "F1").	<p>Low voltage protection battery monitor is set too high.</p> <p>Battery voltage is too low.</p>	<p>Set the battery monitor to a lower level.</p> <p>Test the battery and charge it if needed.</p>
The display screen shows an Error Code, and the unit does not cool. Please refer to above section "ERROR CODE DISPLAY." normally)	Please see the above explanation in the section "ERROR CODE DISPLAY."	This should only be repaired by an authorized repair center or professional.
The compressor runs but the inner liner does not get very cold.	<p>The ambient temperature is too high.</p> <p>The cooling system may be blocked or the refrigerant has leaked.</p>	<p>Allow more time to let it cool down, and move the unit to a better environment</p> <p>Contact the service department or a professional.</p>
The inner compartment is very cold and the compressor runs continuously	The ice or frost on the liner wall is too thick.	Start the defrost process.
	The door is not closed appropriately or opened too frequently.	The door should be closed as much as possible, and not opened too often.
	The condenser is not well-ventilated.	Place the unit in a place with good air
	The set temperature is too low.	Set the temperature to a higher value.
The unit is noisy	The unit is not level.	Place the unit on a flat, hard surface.
	The DC power voltage is not in the correct range.	Run the unit at a normal DC power supply range.

I WARRANTY

The manufacturer provides a warranty in accordance with the legislation of the customer's country of residence, with a minimum of 1 year starting from the date on which the appliance is sold to the end user.

The warranty only covers defects in material or workmanship.

The repairs under warranty may only be carried out by an authorized service center. When making a claim under the warranty, the original bill of purchase (with purchase date) must be submitted.

The warranty will not apply in cases of:

- Normal wear and tear
- Incorrect use, e.g. overloading of the appliance or use of non-approved accessories
- Use of force; damage caused by external influences
- Damage caused by non-observance of the user manual, e.g. connection to an unsuitable mains supply or non-compliance with the installation instructions
- Partially or completely dismantled appliances

APPLICATIONS



By keeping a battery on hand, you can ensure that the refrigerator maintains its set temperature in any situation.



When storing ice cream, please set the refrigerator to the lowest temperature and keep the power on constantly.



Prevent health problems from bottled water deterioration caused by high temperatures.



Keep fresh or frozen foods—even luxurious seafood—safe during long trips.



Your car refrigerator effectively preserves the freshness of tea leaves. You can enjoy fresh and delicious tea anytime during your road trip.



The ideal storage temperature for red wine is 50°F –64°F. The precise temperature control of your Euhomy car refrigerator guarantees the proper storage temperature.



Fruits will not keep in a hot car for more than 2 hours, even with the air conditioning running. But your car refrigerator can keep fruit fresh for a long time.



Did you know? The coating on some sunglasses will peel off at high temperatures! Your car refrigerator is the best place to store your sunglasses.



Cosmetics easily melt and go bad at high temperatures. Keep makeup and other beauty products fresh and safe in your car refrigerator.



There are two closed-loop hooks on one side of the box. You can use these to hang bags or small tools, keeping your hands free when using the car refrigerator.

