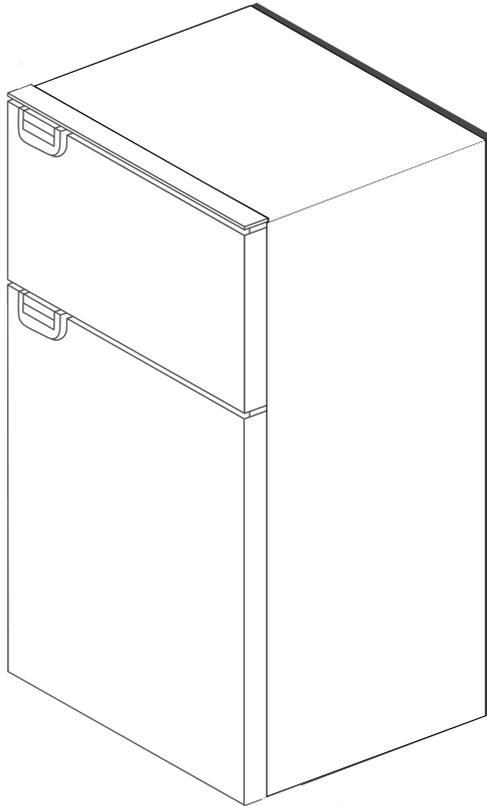




Owners Manual & Operating Instructions



MODEL:YCD226

SAFETY INFORMATION



NOTICE

Please read the user manual and safety instructions carefully before using the appliance.

- ◆ By ignoring the safety instructions, the manufacturer cannot be held responsible for the damage.
- ◆ The use of accessories that are not recommended by manufacturer can cause injuries and will invalidate any warranty that you may have.
- ◆ The appliance shall not be exposed to moderate/heavy rain.
- ◆ Place the refrigerator on a dry, secure surface, with adequate ventilation.
- ◆ Do not leave the refrigerator unattended in uncovered, outdoor areas exposed to the elements.
- ◆ Do not use this appliance near direct heat sources, such as an open flame or radiator.
- ◆ Do not place open containers of liquid inside the fridge.
- ◆ Please don't put hot/warm food into the fridge directly without letting it cooling off. Place/arrange the content of your fridge securely when using the refrigerator inside a moving vehicle.
- ◆ To maximize energy savings, please make sure the lid is closed and secure, and only open the fridge when you need to.
- ◆ The power cable must only be replaced by qualified technical personnel and by an assistant body authorized by the manufacturer.
- ◆ Before carrying out any maintenance operations on the refrigerator, disconnect all power sources from the fridge.
- ◆ Further information is provided on the technical data label inside the product.



CAUTION

- Please keep the fridge in a well ventilated area.
- Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- Do not use electrical devices inside the food storage compartments of the appliance, unless approved/recommended by the manufacturer.
- The appliance is only to be used with the power supply unit provided with the appliance.
- It must only be supplied at safety extra low voltage corresponding to the marking on the appliance.
- To avoid contamination of food, please respect the following instructions:
 - Opening the door for long periods can cause a significant increase of the temperature in the compartments of the appliance.
 - Clean regularly surfaces that can come in contact with food and accessible drainage systems.
 - Store raw meat and fish in suitable containers in the refrigerator, so that it is not in contact with or drip onto other food.
 - If the refrigerating appliance is left empty for long periods, switch off, defrost, clean, dry, and leave the door open to prevent mould developing within the appliance.

WARNING! Food needs to be packed in bags before putting into the refrigerator, and liquids need to be packed in bottles or capped containers to avoid the problem that the product design structure is not easy to clean.



WARNING!

- Do not store explosive items, such as aerosol cans with a flammable propellant in this appliance.
- Risk of fire and electrical shock.
- Do not let hot items touch the plastic parts of the appliance.
- Do not put flammable products or items in, near or on the appliance.
- Do not touch the compressor or the condenser when the fridge is operating. They may be very hot.
- When setting up the appliance, ensure the supply cord is not trapped or damaged.
- Do not locate multiple portable socket-outlets or portable power supplies at the rear of the appliance.
- 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 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.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified person in order to avoid a hazard.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.

CORRECT DISPOSAL OF THIS PRODUCT



To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the recovery systems or contact the retailer that they can take this product for environmental safe recycling.

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.

INTENDED TO USE

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

- staff kitchen areas in shops, offices and other working environments;
- farm houses and by clients in hotels, motels and other residential type environments;
- bed and breakfast type environments;
- catering and similar non-retail applications.
- This appliance is suitable for camping use.

REFRIGERANT SAFETY INFORMATION

Correct functioning of this product depends on a small amount of refrigerant gas contained within a hermetically sealed system.

Check the type of gas contained in your product.

The type of gas is indicated on the identification plate and in chapter SPECIFICATIONS.

DANGER

Products containing R134a refrigerant gas should be handled with care because, if released into the atmosphere, this gas significantly affects the greenhouse effect. In addition, although this gas is classified as non-hazardous to humans and non-flammable, it could catch fire if mixed with air under pressure and exposed to particular temperatures (above 50°C).

DANGER

Products containing the refrigerant gases R1234yf, R290 and R600a are characterised by a high level of environmental compatibility. However, these gases are flammable.

Keep the product away from flames or similar incandescent substances before disposal.

Do not allow hot objects to touch the plastic parts of the product.

When transporting and installing the product, take care not to damage any part of the refrigerant circuit.

If gas escapes forcefully from the circuit:

- ◆ Move away from flames, incandescent substances or sources of fire.
- ◆ Ventilate the room.
- ◆ Switch off the product and disconnect it from the electrical mains.
- ◆ Contact the authorised Customer Service Department.

DANGER: TECHNICAL INTERVENTIONS

Only authorised technical personnel specialised in electrical, hydraulic and refrigeration fields may carry out interventions on the product.

DANGER: EXPOSURE TO REFRIGERANT

Contact a doctor immediately in case of inhalation, skin or eye contact.



DANGER: HANDLING THE REFRIGERANT CIRCUIT

- ◆ The gas is contained in a hermetically sealed system, which is essential for correct operation of the product.
- ◆ Prevent hot objects from coming into contact with the plastic parts of the product.
- ◆ Do not open the refrigerant circuit for any reason.
- ◆ Do not release the gas into the environment.
- ◆ Work on the circuit must only be carried out by specialised technicians trained in the principles of refrigeration, the use of refrigerants and the risks associated with high-pressure units.



DANGER: DEFROSTING

Do not accelerate defrosting using mechanical, electrical or chemical methods. There is a risk of perforating the refrigerant circuit.

If this product's mains connection cable is damaged, it must be replaced by the manufacturer, customer service or a similarly qualified person authorised by the Manufacturer.

Installations and repairs carried out by unqualified persons can create considerable danger to the user.

Repairs may only be carried out by the manufacturer, customer service or a similarly qualified person authorised by the Manufacturer.

Only original manufacturer spare parts may be used. The manufacturer can guarantee that the safety requirements are met on when these parts are used.

IMPORTANT INFORMATION

- Do not lay your fridge on its back, top or sides or at any angle exceeding 30°. If your fridge has been handled this way, stand the fridge upright for 12 hrs to allow the internal fluids to redistribute evenly before use.
- Do not use a modified sine wave inverter to operate your fridge.

PRIOR TO INSTALLATION

DELIVERY

At delivery, please check that the fridge is complete and is not damaged in any way. Remove all packaging and securing tapes from the fridge. To avoid injury and causing damage to the appliance, be extremely cautious when using sharp or pointed tools to complete this task. Do not connect an appliance that has been damaged, contact Bushman immediately.

INSTALLATION

Installation of the YCD226 must be completed by a suitably trained professional only.

WIRING

Always wire your fridge directly to your battery terminals. Do not run the wires via a buss bar, battery management system or shared circuit. Please also ensure the earth is wired directly to your battery, not to a chassis. Ensure the wiring polarity is correct. Connect the red wire to the positive terminal (+) and the black wire to the negative terminal (-). Never connect bare electric wires.

Use only connections of a size suitable for the cross section of the wire being used.

CROSS SECTION IN MM ²	AWG (AMERICAN WIRE GAUGE)	MAXIMUM LENGTH OF WIRE IN METRES	
		12 V	24 V
2.5	14	2.5	5
4	12	4	8
6	10	6	12
10	8	10	20

ISOLATION SWITCH AND FUSE

We recommend installing an isolation switch for the fridge circuit as close to your battery bank as possible. Any switches must have a breaking load not less than 20 A on 12 V or 10 A on 24 V.

The power supply wiring must also be protected with a 15 A fuse.

INSTALLATION IN A CAVITY

Your new fridge is designed to be installed in a cavity. We recommend allowing a minimum 5mm gap on each side and the top for ease of installation. A minimum gap of 25mm is required for the rear.

Refer to the following table for the recommended cut-out dimensions.

MODEL	CUT-OUT CAVITY DIMENSIONS (MM)		
	WIDTH	DEPTH	HEIGHT
YCD226	605	550	1460

MOUNTING KIT

Position the mounting kit flush with the front edge of the fridge cabinet and mark the position of the holes. Drill shallow, 3mm drill bit, pilot holes through the sheet metal cabinet. Affix the mounting kit to the side and top of the fridge cabinet using the screws provided. Once the fridge has been connected to the power supply and moved into its final position, the mounting kit can be affixed to the front of the cavity.

INTERNAL MOUNTING SLEEVES

There are 4 internal mounting sleeves on the inside of the fridge cabinet, and 2 internal mounting sleeves in the inside of the freezer compartment. Access is provided by gently levering off the plastic caps. M5 screws or bolts need to be used. Drill 4mm pilot holes through the plastic sleeve and right through the fridge cabinet sides. Put a small nylon washer onto the screw / bolt heads before inserting. Ensure that the exterior of the fridge cabinet is flush with your cabinetwork before affixing the screws / bolts. If there is a gap, pack it out with a suitable hard material. Check for screw / bolt tightness after your first trip.

VENTILATION

Ventilation will have a critical impact on the efficient operation of your fridge. A minimum of 2 vents needs to be provided from the rear of the fridge cavity to the outside environment, or to the main room where the fridge is located. The vents should be located at the bottom and top of the fridge cavity and have a free cross section of minimum 600cm² each. Note that a 500mm x 250mm vent will have only a free cross section of approximately 600 cm² (not 1250 cm²).

SPECIFICATIONS

MODE	YCD226
Dimensions (L x W xH)	595x575x1460mm
Capacity	226L
Net Weight	51 kg
Rated Power	80 W
Temperature Range	Fridge: 0°C~10°C; Freezer :-10°C~-20°C
Power Source	DC 12V/24V AC 100V-220V
Refrigerant	R134a(100g)

OPERATION



1. ON/OFF Button

When power-on, short press the “” button, the system enters the standby mode; In the standby mode, short press the “” button, the system enters the power-on mode.

2. Temperature setting

- In the power on state, press “+” or “-” key to adjust the temperature.
- During the temperature setting, long press the “+” or “-” key to adjust the temperature range linearly.

3. Battery protection setting & Fahrenheit and Celsius temperature setting

Connecting with power but under turn-off status, press \wedge and \vee together for 3s to enter into the setting menu, then Press “” to switch between battery protection and C/F , then press \wedge or \vee to set the requested data. Battery Protection Value as below (Default setting is High)

Voltage Protection	12V		24V	
	Cut off (V)	Cut in (V)	Cut off (V)	Cut in (V)
Low 	9.6V	10.9V	21.3V	22.7V
Middle 	10.4V	11.7V	22.8V	24.2V
High 	11.1V	12.4V	24.3V	25.7V

4. ERROR CODE & SOLUTIONS

Code	Description
E1	The DC voltage is under the protection setting and the battery protection mode is activated.
E2	The cooling fan overloads with more than 1A of current.
E3	Motor start error The motor of compressor is blocked or the pressure difference in the refrigeration system is too high.
E4	Minimum motor speed error The compressor overloads and the motor can not maintain its minimum speed 1850 rpms.
E5	Thermal cut-out of electronic unit Thermal cut-out error If the refrigeration system overloads, or the ambient temperature is too high, the thermal sensor is overheated.
E6	NTC failure (Open circuit or short circuit).

DAILY MAINTENANCE AND ATTENTION

Matters need attention

- Please use a wet cloth and warm water mixed with gentle non-abrasive detergents to clean the interior and exterior of your fridge.
- Please power off and unplug the unit before cleaning.
- Please use non-abrasive detergent to cleaning the interior/exterior of the fridge.
- Please don't scrap the interior of the fridge to defrost/de-ice the fridge.
- Please don't pressure-wash/spray the fridge with a running water hose.
- It is strictly forbidden to wash refrigerators directly with water in order to prevent the reduction of electrical insulation and rusting of metal parts.
- The following things can damage the coating and plastic parts, so they can not be used for cleaning: alkaline detergent, soap, abrasive powder, hot water, brush, n-Pentyl acetate, gasoline, alcohol.

Maintenance of plastic parts

- To properly protect the door seals, we must always keep them clean. Avoid grease staining and deformation when using. If oil (animal or vegetable oil) is attached to the plastic parts in the box for a long time, the plastic is easy to aging or cracking, and gives off a bad smell. Therefore, we should form the habit of cleaning regularly.



