ICECO

APL55

V3.0

Please email us at: official@icecofreezer.com

Catalogue

1 Supply Details 1

2 Operation 3

- 2.1 Control Panel 6
- 2.2 Screen Brightness 8
- 2.3 Battery Protection 9
- 2.4 Change Temperature Scale 10
- 2.5 Silence Mode 10
- 2.6 Bluetooth 11
- 2.7 Switch With Dual/Single Zone 11
- 2.8 Ambient Light Setting 12
- 2.9 MAX/ECO Mode 12

3 App Control 13

4 Error Code And Solutions 14

5 Cleaning And Maintenance 23

- 5.1 Cleaning 23
- 5.2 Danger Behavior 24
- 5.3 USB Connector 24

Catalogue

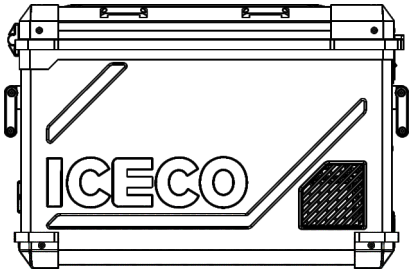
6 Troubleshooting (Q & A) 25

- 6.1 Heat Resistance & Water Resistance 25
- 6.2 What should I do if the refrigerator is upside down when it is delivered? 26
- 6.3 Why did it change back to the original temperature after setting the temperature? ... 26
- 6.4 What is the function of triple battery protection? How do they work? 27
- 6.5 What is the power draw in max/ fast cooling mode? 28
- 6.6 Why is there a temperature difference (between the actual temperature of the refrigerator and the set temperature)? 29
- 6.7 What kind of cable do I need to use in the car and at home? 29
- 6.8 What is the specification of the fuse of the refrigerator? 30

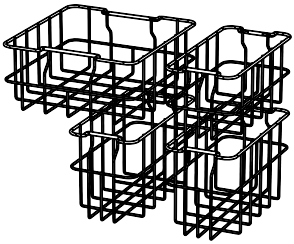
7 Warranty & Return Policy 31

8 Safety Instructions 33

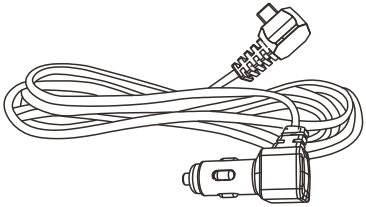
1 Supply Details



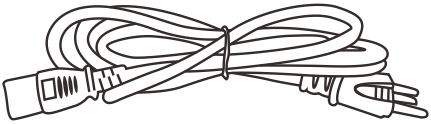
Refrigerator x1



Basket x4



DC Cigarette
Lighter Plug Cable x1

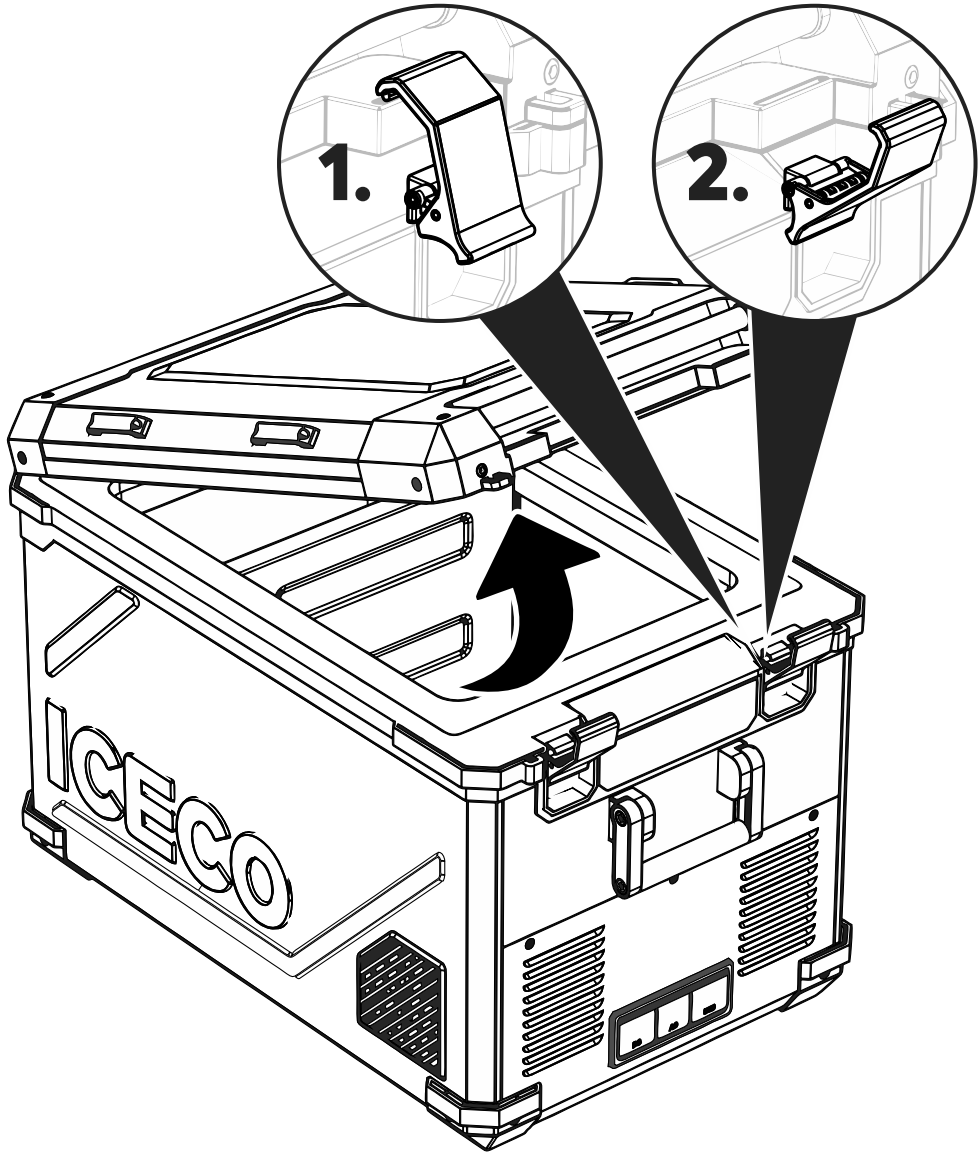


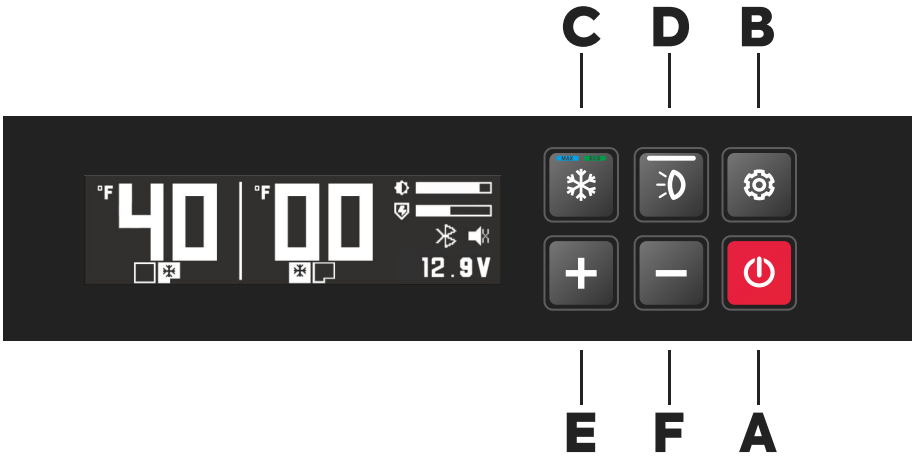
AC Wall Outlet Cable x1

MODEL	APL55
Dimensions (LxWxH)	29.7 x 18.9 x 19.3 inches (754 x 480 x 490 mm)
Net Weight	63.2 lbs (28.7 kg)
Capacity	58.0 quarts (55.0 liters)
Voltage	DC 12/24V AC 110V-120V~
Refrigerant	R513A
App Control	✓
Temperature Range	-4°F to 68°F (-20°C to +20°C)

Note: Unit can be used with 100-125V~, when connected to an AC cable. If unit is used with 200-240V~, please contact ICECO service team to get another AC cable.

2 Operation





A **Power** (Short Press to turn on/off)

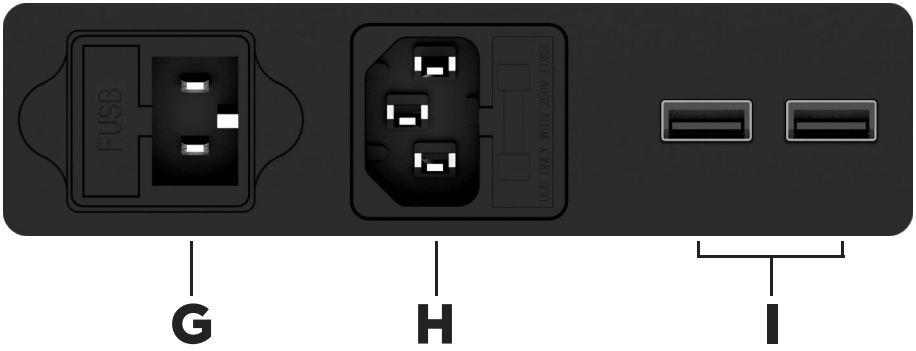
B **Setting Mode**

C **MAX/ECO Mode**

D **Ambient Light Setting**

E **Temp. Setting UP**

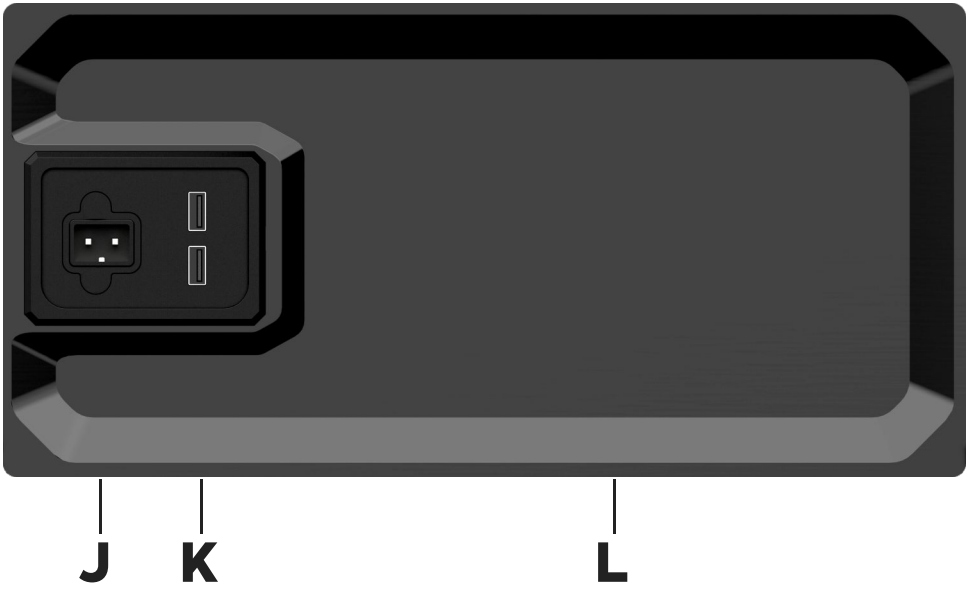
F **Temp. Setting DOWN**



G **DC Charging Port**

H **AC Charging Port**

I **USB Power Port**



J **DC Charging Port**

K **USB Power Port**

L **Magnetic Battery Area**

2.1 Control Panel

2.1.1 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.

2.1.2 Setting Mode

Press the " ⚙ " button to choose the different function, when you successively select the function the corresponding sign will flash.
No any operation for 5 seconds the system will automatic back the home setting mode.

2.1.3 Temperature Setting

- **Dual zone mode:**

When turned on the fridge, short press the " ⚙ " button will into the Setting Mode, select the " □❄ " , can control the " □❄ " individually.

Short press " + " or " − " button can adjust the set temperature of the selected compartment down or up by 1 degree. Short press " ⚙ " button to set the temperature of the other compartment.

- **Single zone mode:**

Short press " + " or " − " button once under the power-on state to adjust the setting temperature down or up by 1 degree.

TIPS: In the temperature setting, long press " + " or " − " button, adjust the set temperature down or up by 4 degrees per second (linear adjustment in 1 degree increments).

2.2 Screen Brightness

2.2.1 Luminance Level

Short press the " ⚙ " button to choose the " ◐ ", then the luminance display bar at the top right of the LCD screen starts flashing, short press " + " or " − " button can reduce or increase the screen luminance by 1 level.

TIPS: There are 6 luminance levels, which are 10%, 20%, 40%, 60%, 80%, and 100%, Level one is 20% full bright display 100%. 0 is 10%.

⚠ **NOTICE: Factory default is start with 100%.**

2.3 Battery Protection

Press " ⚙ " button to enter the Setting Mode, select the Battery Protection Setting " 🛡 " is flashing, short press the " ⚙ " button to enter the battery protection setting menu, short press " + " or " − " button once can lower or raise the battery protection by 1 level.

> ⚠ **NOTICE: Factory default is " M" level.**

VOLTAGE	PROTECTION POSITION	LOW	MED	HIGH
12V	CUT OFF (V)	9.6	10.4	11.1
	CUT IN (V)	10.9	11.7	12.4
24V	CUT OFF (V)	21.3	22.8	24.3
	CUT IN (V)	22.7	24.2	25.7

2.4 Change Temperature Scale

Press " ⚙ " button to enter the Setting Mode, select to " **℃** " " **℉** " is flashing, use " **+** " or " **—** " to switch between the Celsius " **℃** " or Fahrenheit " **℉** ".

> ⚠ **NOTICE: Factory default setting is Fahrenheit " ℉ ".**

2.5 Silence Mode

Press " ⚙ " button to enter the Setting Mode, select to " 🔊 " sign is flashing, use " **+** " or " **—** " to switch between mute or sound.

> ⚠ **NOTICE: Factory default setting is sounds.**
> **Choose silence mode will mute all notice sound, even lid open notice and error code notice.**

2.6 Bluetooth

Press " ⚙ " button to enter the Setting Mode select to " ✱ " sign is flashing, use " + " or " − " to switch between Bluetooth On or Off.
" ✱ " means On, " ✱ " means Off.

> ⚠ **NOTICE: Factory default setting Bluetooth is on.**

2.7 Switch With Dual/Single Zone

Just need to take out the Partitions Board. The system will automatic change to single zone. (will notice on the LED board)

> ⚠ **NOTICE: Dual-zone mode default use the selected compartment temperature sensor for temperature sensing.**

2.8 Ambient Light Setting

Press " ☼ " button, the Ambient light will change with following functions:

❶ Constant light mode,
❷ Breathing light mode,
❸ All off mode

> ⚠ **NOTICE: Factory default ambient light is on.**

2.9 MAX/ECO Mode

When turned on the fridge, short press the " ❄ " button to switch between the MAX or ECO mode.

> ⚠ **NOTICE: Factory default setting is MAX Mode.**

3 App Control

Android

IOS

1 APP Download and Installation:

Android users can find the "ICECO" app on the Android market, and iPhone users can locate it on the App Store by searching for "ICECO".
or
Download the app by scanning the QR code above using your mobile phone's QR code scanner.

2 Instruction:

Log into the APP, with Bluetooth on, and click "Add Devices". The APP will search for available fridge, and enter the instruction display when it connects with your fridge.

4 Error Code And Solutions

Code	Description
E1	The DC Voltage is below the protection settings and the battery protection mode is activated.
E2	The cooling fan is over-loaded with more than 1A of current.
E3	Repeated switching of the machine or a faulty input voltage causes this motor start error. The pressure difference in the refrigeration system is too high.
E4	Minimum motor speed error, the compressor is over-loaded, and the motor cannot maintain its minimum speed of 1850 rpms.
E5	Compressor control module temperature too high or too low protection. (ambient temperature is too high or too low, or the system load is too high, causing the internal temperature of the module /ECU > 212°F or< 14°F)
E6/LL	The temperature sensing head is loose or damaged.
HH	NTC failure (short circuit)

E1 Error Code

The DC Voltage is below the protection settings and the battery protection mode is activated.

E1 Solutions

1. In case of using in the car, turn the car ignition on and start the refrigerator again;

2. In the case of using the AC adapter to connect the electricity at home, you can adjust the battery protection to medium or low mode. If it still does not start after adjusting the mode, then the adapter is faulty and needs to be replaced with a new one.

E2 Error Code

The cooling fan is over-loaded with more than 1A of current.

E2 Solutions

If the fan does not start but the compressor does, this is a short-circuited fan. You can fix the error code by replacing the fan.

E3 Error Code

Repeated switching of the machine or a faulty input voltage causes this motor start error.The pressure difference in the refrigeration system is too high.

E3 Solutions

1. Make sure to turn off the machine and wait for 5 minutes before turning it on again. If the compressor starts and then stops a few seconds later, it is an E1 fault, and you need to refer to the above E1 troubleshooting method for troubleshooting;

2. The input voltage is too low to reach the minimum starting voltage required by the battery protection, resulting in the refrigerator can not start. Reduce the starting voltage gear can solve the problem.

E4 Error Code

Minimum motor speed error, the compressor is over-loaded, and the motor cannot maintain its minimum speed of 1850 rpms.

E4 Solutions

1. Make sure to turn off the machine and wait for 5 minutes before turning it on again. If the compressor starts and then stops a few seconds later, it is an E1 fault, and you need to refer to the above E1 troubleshooting method for troubleshooting;

2. The compressor will break down at ambient temperatures above 55°C. Try to avoid using the refrigerator at high ambient temperatures. Make sure there is enough space outside the compressor cover to dissipate heat (more than 5cm on the left and right sides and 10cm space on the front air outlet). Check that the cooling fan terminals are connected tightly.
A non-functioning cooling fan will result in the compressor being unable to dissipate heat and the temperature will rise.

E5 Error Code

Compressor control module temperature too high or too low protection.
(ambient temperature is too high or too low, or the system load is too high, causing the internal temperature of the module/ECU > 212°F or< 14°F)

E5 Solutions

1. The compressor will break down at ambient temperatures above 55°C. Try to avoid using the refrigerator at high ambient temperatures. Make sure there is enough space outside the compressor cover to dissipate heat (more than 5cm on the left and right sides and 10cm space on the front air outlet). Check that the cooling fan terminals are connected tightly. A non-functioning cooling fan will result in the compressor being unable to dissipate heat and the temperature will rise.

2. For ECU (module) issues, you can adjust the battery protection mode and then make sure the starting voltage is normal. If that doesn't fix the problem, the ECU will need to be replaced.

E6/LL Error Code

The temperature sensing head is loose or damaged.

E6/LL Solutions

1. Check the temperature sensing head to see if the connection is tight. If it is loose, reconnect it and install it in place.

2. If the sensor head is damaged, replacing the sensor head can solve the problem.

HH Error Code

NTC failure (short circuit)

HH Solutions

1.Check the temperature sensing head terminals for water ingress. Try replacing the temperature sensing head to see if the refrigerator works properly

2.Check the terminals on the control panel end for shorts.

TIPS:

1. Single zone appeared NTC failure, the system will temperate the failure side. Other zone is normal. If two sides all appeared NTC failure, the whole system will shut off.

2. E3/E4/E5 error code will cause the system restart with 2500r/min. Following setting will same as before you cut the power.

3. After opening the lid for more than 1 minute, the system will have one "beep" and stops after 30 seconds. When you close the lid, the system will recount the timer.
(Silence mode could mute all warning sounds)

4. When the scream appeared the error code, system will have a warning sounds "beep" for 3 seconds. After 10 "beep" the warning sounds will turn off automatic. The system will recount the timer when the failure solved.

5 Cleaning And Maintenance

5.1 Cleaning

- Always unplug the fridge before cleaning the fridge.
- You can clean the interior and exterior of the fridge by using warm water, mixed with a gentle non-abrasive detergent.
- You may use a soft sponge, or micro fiber cloth.
- When not in use, it's better to leave the lids open to reduce odors.
- If odors occur, please clean the fridge thoroughly, or use baking soda in a bowl to absorb odors.

5.2 Danger Behavior

⚠ Use pointed objects to scrape, or defrost ice.

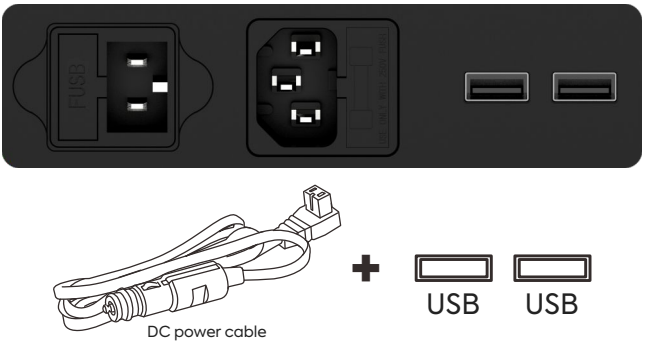
⚠ Use abrasive detergents to clean.

⚠ Use heavy duty sponges (due to scratching).

⚠ Clean the fridge with running water or pressure washer.

⚠ Clean the fridge without power input covers secured.

5.3 USB Connector



⚠ **NOTICE: USB power port only takes effect when charging in DC power cord.**

6 Troubleshooting (Q & A)

6.1 Heat Resistance & Water Resistance

Heat Resistance

ICECO refrigerators are engineered to operate at an ambient temperature of up to 55°C (131°F).

Water Resistance

ICECO refrigerators can operate under light rain conditions. Please keep the vents above clear of water, and please add some clearances to the bottom of the fridge if the ground is wet.

We DO NOT recommend exposing the fridge to moderate or heavy rain.

As with all electrical appliances, over-exposure to moisture may shorten the fridge's life.

6.2 What should I do if the refrigerator is upside down when it is delivered?

Please leave your refrigerator upright for **24 hours** to allow the compressor lubricant to resettle before powering on the fridge.
Otherwise it may contribute to certain operation abnormalities.

6.3 Why did it change back to the original temperature after setting the temperature?

The Solid/Non-Flashing number on the display is the CURRENT interior temperature.
The Flashing number is your SET temperature after adjustment.

The compressor will shut off when the SET temperature is reached.

6.4 What is the function of triple battery protection? How do they work?

The triple battery protection is designed to prevent over-discharge and battery depletion.

When the measured DC voltage is below the set value, the compressor is shut off to prevent battery depletion.

VOLTAGE	PROTECTION POSITION	LOW	MED	HIGH
		1Bar	2Bar	3Bar
12V	CUT OFF (V)	9.6	10.4	11.1
	CUT IN (V)	10.9	11.7	12.4
24V	CUT OFF (V)	21.3	22.8	24.3
	CUT IN (V)	22.7	24.2	25.7

For example, when you switch to a LOW MODE, the battery voltage is under 9.6 volts, the refrigerator will automatically cut the power OFF;

The refrigerator will start again till the battery voltage reached back to 10.9 volts.

6.5 What is the power draw in max/ fast cooling mode?

Model	Electrical Power	Model	Electrical Power
GO12	50W	**JP42**	55W
GO20	50W	**APL55**	70W
JP Series	60W	**VL Series**	85W
VL45 ProS	45W	**VL60 ProS**	47W
VL75 ProD	57W	**VL90 ProD**	61W
JP40 Pro	60W	**JP50 Pro**	60W

This data is only suitable for laboratory testing, and the actual power is subject to actual conditions.

6.6 Why is there a temperature difference (between the actual temperature of the refrigerator and the set temperature)?

Because of the sinking nature of cold air, the different temperatures may exist in different locations in the refrigerator (the temperature of the bottom will be the lowest).
The panel only shows the average temperature of the refrigerator.

6.7 What kind of cable do I need to use in the car and at home?

The DC cable is provided. You can power it from your vehicle's cigarette lighter plug using the DC cable. You can also power it at home, but you need to use with AC cable as precondition.

6.8 What is the specification of the fuse of the refrigerator?

The supply line is protected by a 15A fuse located in the refrigerator.

If you have any problems or questions about the product

1. **Please call us:**
   +1 (888) 606 1046 (Mon-Fri 9:00am-6:00pm PT)
2. **Please email us:**
   official@icecofreezer.com (for Amazon orders)
   support@icecofreezer.com (for other orders)

*Please let us know your order number first for a quick solution

7 Warranty & Return Policy

30 days refund guarantee upon receiving.

5 years warranty on the compressor.

1 year warranty for other parts or accessories.

For returns or exchanges, please contact us.

- Call us:
  +1 (888) 606 1046 (Mon-Fri 9:00am-6:00pm PT)
- Email us:
  official@icecofreezer.com (for Amazon orders)
  support@icecofreezer.com (for other orders)

All materials must be returned in the original condition and packaging.

Thank you for your cooperation.

*Please let us know your order number first for a quick solution

If the product is received damaged or defective during transportation, you will need to contact our customer service within 2 business days.

Make sure to provide relevant photos or videos, your order ID number, and your name.

A customer service agent will help assist into solving the issue at a timely manner (Return, Exchange, or Discount Compensation).

A free return label will be provided if needed.

8 Safety Instruction

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 adaquate ventilation.

⚠ Do not leave the refrigerator unattended in uncovered, outdoor areas exposed to the elements.

⚠ Do not use this appliance near direct heatsources, 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.

This appliance is suitable for camping use.

WARNING!

⚠ 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.

⚠ Do not store explosive items, such as aerosol cans with a ammable 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 ammable 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.

Further information is provided on the technical data label inside the product.

1. 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.

2. Children should be supervised to ensure that they do not play with the appliance.

3. 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.

4. 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.

5. Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.

6. **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.**

FCC warning:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -Reorient or relocate the receiving antenna.
- -Increase the separation between the equipment and receiver.
- -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

ICECO

Cooler Than A Cooler