ICECO



APL35

V7.0

Catalogue

1 Supply Details 01

2 Operation 03

- 2.1 ON/OFF Button 04
- 2.2 Temperature Setting 04
- 2.3 Setting Mode 05

2.3.1 MAX/ECO Mode 05

2.3.2 Triple Battery Protection Operation 05

2.3.3 Fahrenheit/Celsius Switching 06

- 2.4 Single/Dual Zone Mode 07

3 App Control 08

4 Error Code And Solutions 09

5 Cleaning And Maintenance 15

- 5.1 Cleaning 15
- 5.2 Danger Behavior 15

6 Troubleshooting (Q & A) 16

- 6.1 Heat Resistance & Water Resistance 16

Catalogue

- 6.2 What should I do if the refrigerator is upside down when it is delivered? 16
- 6.3 Why did it change back to the original temperature after setting the temperature? ... 17
- 6.4 Why is there a temperature difference (between the actual temperature of the refrigerator and the set temperature)? 17
- 6.5 What kind of cable do I need to use in the car and at AC socket? 17
- 6.6 What is the function of triple battery protection? How do they work? 18
- 6.7 What is the 24 hours power consumption? 19
- 6.8 What is the specification of the fuse of the refrigerator? 19

7 Customer Service **20**

8 Safety Instructions **22**

9 Accessories (Purchase Separately) **28**

- 9.1 Fridge Accessories 28
- 9.2 Power Support Series 28
- 9.3 ICECO Portable Fridge Catalog 29

1 Supply Details

APL35



APL35 Refrigerator x1



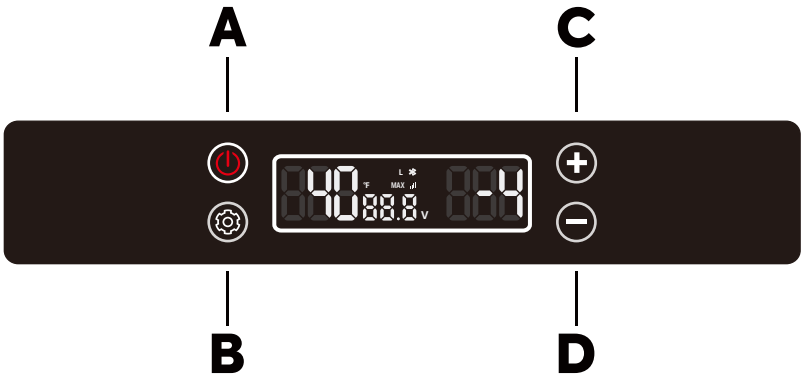
DC Cigarette Lighter Plug Cable x1



100-240V Universal AC Adapter x1

Model	APL35
Color	Silver/Other limited colors
Dimensions (L x W x H)	27.0 x 14.4 x 15.7 inches (686 x 364 x 398 mm)
Net Weight	32.0 lbs (14.5 kg)
Capacity	37.0 quarts (35.0 liters)
Voltage	DC 12/24V
Temperature Range	-4°F to 68°F (-20°C to +20°C)
Insulation	C-pentane
Shell material	Aluminum

2 Operation



A **Power** (Long press to turn on/off)

B **Setting Mode**

C **Temp. Setting** (Up)

D **Temp. Setting** (Down)

2.1 ON/OFF Button

Supply power to the refrigerator via DC or AC (with AC adapter). Press and hold the " ⏻ " button for 1 second to power on or power off the refrigerator.

2.2 Temperature Setting

With the device powered on, short press the " ⚙ " button once. The left side of the digital display will begin to flash. While it's flashing, press the " + " or " − " button once to decrease or increase the temperature setting for the left compartment by 1 degree.

While the left side of the digital display is flashing, press the " ⚙ " button once. The right side of the display will start flashing. While it's flashing, press the " + " or " − " button once to decrease or increase the temperature setting for the right compartment by 1 degree. (Pressing the " ⚙ " button to adjust the temperature for the other compartment. If there's no activity, the digital display will stop flashing after 5 seconds, saving the temperature settings for both compartments and returning to normal display.)

The default temperature is set to 0°C at the factory.

2.3 Setting Mode

Long press the " ⚙ " button for 2 seconds to enter Setting Menu, while the display starts flashing, short press " ⚙ " to select the desired function:

MAX/ECO mode — Triple Battery Protection Operation — Fahrenheit/Celsius Switching.

2.3.1 MAX/ECO Mode

Select MAX/ECO mode, when the current operating mode start flashing, press the " + " or " − " button once to switch to the next or previous operating mode (cycling between modes without limit). The available operating modes are "ECO" and"MAX" (only the currently selected mode will be displayed).
After switching modes, wait for 5 seconds before the switch to the new mode takes effect.

The default mode at the factory is "MAX".

2.3.2 Triple Battery Protection Operation

Select Triple Battery Protection Operation, when the current battery protection level start flashing, press the " + " or " − " button once to decrease or increase the protection level by one notch (cycling without upper or lower limits).

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

The default factory setting is "M".

2.3.3 Fahrenheit/Celsius Switching

Select Fahrenheit/Celsius Switching, when the current temperature unit font start flashing, press the " + " or " — " button once to toggle between Celsius " °C " and Fahrenheit " °F " once (cycling without upper or lower limits).

The default factory setting is " °F " .

2.4 Single/Dual Zone Mode

This model supports freely switching between single zone mode and dual zone mode.

Using the control panel buttons to deactivate one of the compartments.

-In the powered-on state, simultaneously press and hold the " ⚙ " and " + " buttons for 1 second. The left side of the display will turn off, indicating that the cooling for the left compartment is deactivated.

-In the powered-on state, simultaneously press and hold the " ⚙ " and " − " buttons for 1 second. The right side of the display will turn off, indicating that the cooling for the right compartment is deactivated.

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	NTC open circuit/short circuit fault.
E7/HH	Display panel and control board communication failure.

E1

Error Code

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

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 AC socket, 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.

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.

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.

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)

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

NTC open circuit/short circuit fault

Solutions

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

E7/HH

Error Code

Display panel and control board communication failure.

Solutions

1.Check if the internal circuit board connections are securely fastened. If loose, reconnect them and ensure they are properly installed.

2.If the circuit board connectors are damaged, replacing the circuit board should resolve the issue.

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.

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 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.

6.5 What kind of cable do I need to use in the car and at AC socket?

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 AC socket, but you need to use with AC cable as precondition.

6.6 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.

6.7 What is the 24 hours power consumption?

Model	Electrical Power	Model	Electrical Power
APL20	0.293 KW.H	**GO20**	0.433 KW.H
APL35	0.381 KW.H	**JP30 ProS**	0.323 KW.H
APL55	0.326 KW.H	**JP40 ProS**	0.323 KW.H
JP30	0.452 KW.H	**JP50 ProS**	0.405 KW.H
JP40	0.482 KW.H	**VL35 ProS**	0.430 KW.H
JP50	0.482 KW.H	**VL45 ProS**	0.510 KW.H
VL45	0.348 KW.H	**VL60 ProS**	0.548 KW.H
VL60	0.416 KW.H	**VL75 ProD**	0.636 KW.H
VL65	0.545 KW.H	**VL90 ProD**	0.658 KW.H
VL74	0.562 KW.H		

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

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.

7 Customer Service



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/Walmart orders)

support@icecofreezer.com
(for website orders)

support@iceco-us.com
(for other orders)

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



Important Notice Upon Delivery

1. **Please inspect your item promptly upon delivery.**
   If the product is damaged during transportation, contact our customer service team **within 2 business days** of receipt.

2. **If you encounter any product issues,**
   please provide your **order number** along with **photos or videos** clearly showing the problem. This will help our support team assist you efficiently.

3. **To protect your rights,**
   please keep the **original packaging for at least 30 days** in case a return or exchange is needed. If a product is returned with insufficient packaging and gets damaged during transit, we may be unable to issue a full refund.

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 applications such as: Car, truck, RV, camping trip, van, boat, suv, jeep, overlanding life and so on.

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.

9 Accessories (Purchase Separately)

9.1 Fridge Accessories



Insulated Cover
APL35



Slide Mount
APL35

9.2 Power Support Series



PB250
250Wh
Magnetic Battery



PB1000
1057Wh Battery



80W
Solar Panel

9.3 ICECO Portable Fridge Catalog

Dual Zone



GO20

White/Gray
/Other limited colors

Capacity	21 quarts
Cooling Range	0°F to 50°F
Consumption (KW.H/24H)	0.433
Product Weight	27.5 lbs
Product dimension (L*W*H)	22.4 x 12.6 x 12.4 inches

Single Zone



JP30/40/50 ProS

Black/Other limited colors

Capacity	31/40/50 quarts
Cooling Range	-4°F to 68°F
Consumption (KW.H/24H)	0.323/0.323/0.405
Product Weight	38.6/39.1/40.7 lbs
Product dimension (L*W*H)	28.5 x 13.8 x 15.9/ 28.5 x 13.8 x 18.0/ 28.5 x 13.8 x 21.0 inches

---

Single Zone



VL45/74

Green/Other limited colors

Capacity	47/78 quarts
Cooling Range	0°F to 50°F
Consumption (KW.H/24H)	0.4348/0.416
Product Weight	50.6/62.5 lbs
Product dimension (L*W*H)	27.4 x 15.8 x 19.2/ 32.3 x 19.4 x 19.6 inches

---

Dual Zone



VL60/65

Green/Other limited colors

Capacity	63/68 quarts
Cooling Range	0°F to 50°F
Consumption (KW.H/24H)	0.545/0.562
Product Weight	64/65 lbs
Product dimension (L*W*H)	31.2 x 19.5 x 18.9/ 32.3 x 19.5 x 19.7 inches

---

Single Zone



VL35/45/60 ProS

Black/Other limited colors

Capacity	37/47/63 quarts
Cooling Range	0°F to 50°F
Consumption (KW.H/24H)	0.430/0.510/0.548
Product Weight	48.7/52.2/59.0 lbs
Product dimension (L*W*H)	28.1 x 15.9 x 15.7/ 28.1 x 15.9 x 18.1/ 30.2 x 18.5 x 18.1 inches

Dual Zone



VL75/90 ProD

Black/Other limited colors

Capacity	79/95 quarts
Cooling Range	0°F to 50°F
Consumption (KW.H/24H)	0.636/0.658
Product Weight	69.6/75.1 lbs
Product dimension (L*W*H)	36.5 x 18.5 x 18.1/ 38.3 x 20.7 x 18.1 inches

---

Single Zone/Dual Zone



APL20/35

Sliver/Other limited colors

Capacity	21/37 quarts
Cooling Range	-4°F to 68°F
Consumption (KW.H/24H)	0.293/0.381
Product Weight	22.9/32.0 lbs
Product dimension (L*W*H)	25.0 x 14.9 x 11.6/ 27.0 x 14.4 x 15.7 inches

---

Dual Zone



APL55

Black/Sliver /Other limited colors

Capacity	58 quarts
Cooling Range	-4°F to 68°F
Consumption (KW.H/24H)	0.326
Product Weight	63.2 lbs
Product dimension (L*W*H)	29.7 x 18.9 x 19.3 inches



+1(888)606 1046

(Mon-Fri 9:00am-6:00pm PT)



official@icecofreezer.com
(for Amazon/Walmart orders)



support@icecofreezer.com
(for website orders)



support@iceco-us.com
(for other orders)