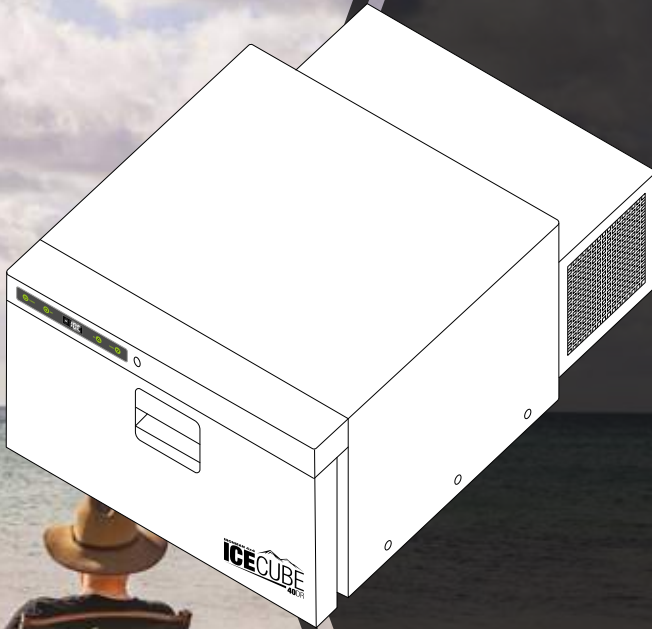


IRONMAN 4x4

FRIDGE / FREEZER

USER GUIDE *Instruction Manual*



IRONMAN 4x4
ICECUBE

**40lt
42qt**
CAPACITY

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General information and safety instructions

Please read and familiarise yourself with this manual thoroughly before first use.

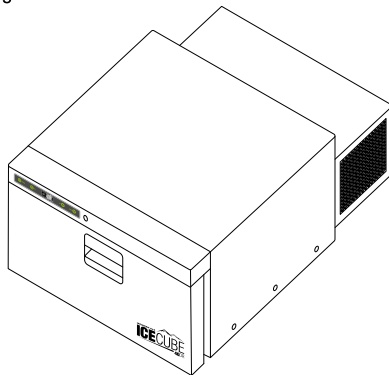
Intended use

This is a portable product designed for private use. It designed for use in Vehicles, 4-wheel drives, caravans and other vehicles including motor homes caravans and boats.

It is designed to cool food beverages and be set up and used in dry weather protected areas.

- The safety precautions enclosed reduce the risk of fire, electric shock and ensure correct operation of the appliance.
- Keep the manual in a safe place for future reference along with your purchase receipt.

Always follow basic safety precautions and accident prevention measures when using an electrical appliance including the following.



Electrical safety

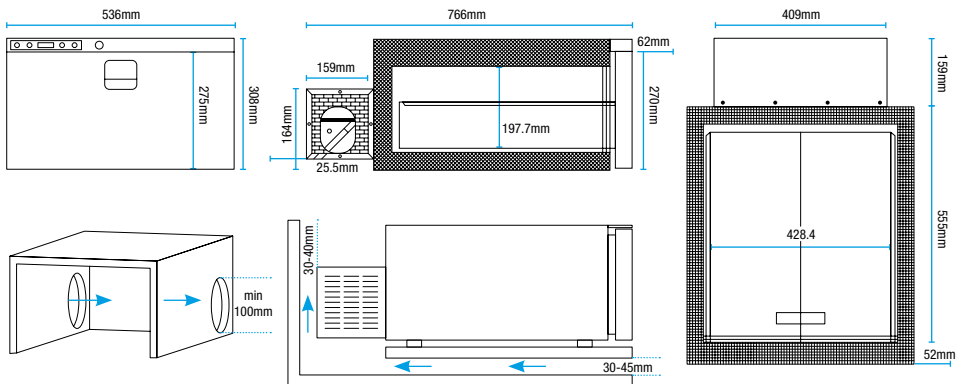
- Correct voltage corresponds to the voltage indicated on the appliance rating label.
- Ensure your hands are dry before handling the plug or switching on the appliance.
Do not use it on wet surfaces.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- Protect the power cord. Do not kink or damage the power cord.
- Do not wrap the power cord around the appliance.
- Do not pull the unit by the power cord.
- Do not use the power cord as a handle.
- Never touch uninsulated power cord with bare hands, this applies specially to handling AC cords.
- Never obstruct vents of to the fridge, freezers, compressor.
- Defrost the fridge freezer on a regular basis. Never use hard or sharp implements to remove ice from the cooling compartment.
- Never use abrasive or solvent based materials. When cleaning the cooling compartment.
- Do not use any electrical appliances inside the cooling compartment.
- **Note** 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.
- Do not expose to rain.
- This appliance is suitable for camping use.

Getting started

Installation.

After unpacking the appliance, check that all parts are supplied. Place the unit in a dry place which is protected against splashing water. Do not place directly adjacent to sources of heat, such as heating, gas ovens, hot water pipes, or directly in the sun.

It is important that your appliance is installed and operated in accordance with these instructions to ensure its performance, efficiency & operation.



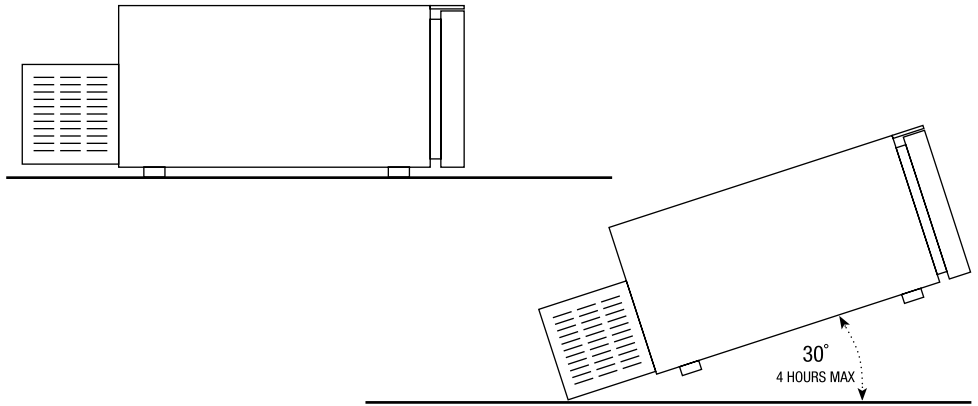
Application and Cooling Performance Range

The cooling compartment has varying temperature zones. The temperatures indicated on the digital display are related to the middle of the cabinet. The single zone fridge freezer is designed to either refrigerate or freeze food. The dual zone fridge freezer can be used as either a fridge or freezer or both simultaneously.

If you wish to refrigerate medicines, first check to ensure the appliance cooling capacity meets the demands of the required medicines. The appliance is designed to operate at ambient temperatures between $-10^{\circ}\text{C} / 14^{\circ}\text{F}$ and $55^{\circ}\text{C} / 130^{\circ}\text{F}$ in a maximum air humidity of 90%.

Note normal operation of the appliance requires that heat is radiated away from the condenser located at the end of the cabinet. Adequate airflow is always required around the compressor.

The cooling system has been designed to operate correctly when the appliance is positioned on angles up to 30 degrees. It is recommended that the time the unit is exposed to angles over 30 degrees is limited to a maximum of four hours of continuous operation.



Power requirements

The appliance is designed to operate on DC voltage.
DC input 12 or 24 Volt DC. Example car, cigarette lighter or car battery.

If the appliance is operating when the vehicle ignition is switched off. The fridge freezer will switch off automatically when the power source voltage falls below the battery protection cut out setting.

The unit will automatically switch back on when the vehicle is restarted, and the power source reaches the battery protection cut in setting.

The appliance is equipped with an electronic control system that will prevent polarity reversal in the event that the battery connection is reversed - The unit will not start to operate.

For optimum operation it is important that the correct sized cable is used in relation to the distance from the battery to the unit and that the power input socket is fitted with a 15 amp blade fuse for protection.

CABLE AREA		12V DC MAX CABLE LENGTH		24V DC MAX CABLE LENGTH	
[mm ²]	AWG	[m]	[ft.]	[m]	[ft.]
2.5	12	< 2.5	< 8	< 5	< 16
4	12	< 4	< 13	< 8	< 26
6	10	< 6	< 20	< 12	< 39
10	8	< 10	< 33	< 20	< 66

(AWG - American Wire Gauge)

The length measurement in the above table is from the battery to the refrigerator.

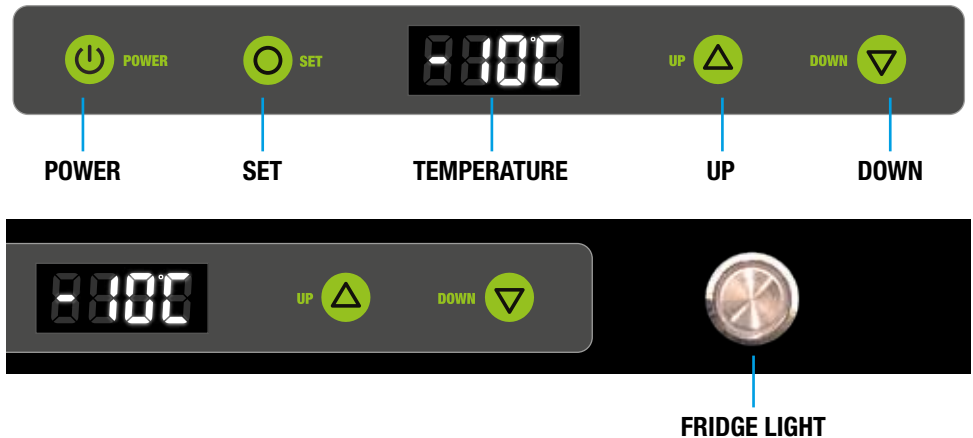


DC Operation

Plug the DC power cord into the power socket on the end of the fridge freezer, then connect to a suitable DC power source.

The display will show the measured voltage at the power inlet at the input connection.

Control Panel



Temperature control

When your fridge freezer is first connected to the DC power input, the appliance will automatically switch on and the LCD control panel will display the current cabinet temperature.

The temperature control enables the setting of the cabinet to the desired temperature level and displays the current cabinet temperature. The electronic control has been programmed to maintain an average of the set temperature.

The compressor will start up when the internal cabinet temperature increases $.5^{\circ}\text{C} / 32^{\circ}\text{F}$ - $1.5^{\circ}\text{C} / 34^{\circ}\text{F}$ above the set temperature and will run until the temperature is $.5^{\circ}\text{C} / 32^{\circ}\text{F}$ - $1.5^{\circ}\text{C} / 34^{\circ}\text{F}$ below the set temperature.

Battery protection

The user can set the minimum battery voltage cut out to protect their battery, when the appliance reached this level, it will switch off and an audible beep will be heard when the protection is activated.

The unit will automatically restart once Cut In voltage is reached and will retain all the original settings prior to the monitor being activated.

BATTERY PROTECTION	12V CUT-OUT	12V CUT-IN	24V CUT-OUT	24V CUT-IN
H1	10.0V	11.4V	21.5V	23.0V
H2	11.1V	12.2V	23.3V	25.3V
H3	11.6V	12.7V	24.5V	26.2V

Compressor Speed

The cooling system can be adjusted to increase or decrease the cooling performance as required, the higher the speed the more power can be consumed.

Appliance Operation



POWER



SET





UP



DOWN



Power

1. Touch and hold the  Power button to turn the fridge on.
2. Touch and hold the  Power button for 5 to 7 seconds to turn the fridge off.



Temperature Setting

1. Touch the  until the required temperature is selected.



Battery protection

1. Touch the  Set for 3 to 5 seconds.
2. An audible beep will be heard, and the display will flash the current setting (H1 / H2 / H3).
3. Touch  Up and Down until the required setting is reached.
4. Display will flash 4 times and return to the temperature display.

Compressor Speed

1. Touch the  Set for 3 to 5 seconds.
2. An audible beep will be heard, and the display will flash the current Battery Protection setting.
3. Touch again and the compressor speed is displayed.
4. Touch  Up and Down until the required setting is reached (Max / ECO).
5. Display will flash 4 times and return to the temperature display.

Change Temp Read Out - Celsius to Fahrenheit

1. Touch the  Set for 3 to 5 seconds.
2. An audible beep will be heard, and the display will flash the current Battery Protection setting.
3. Touch again twice, and the current setting will be shown.
4. Touch  Up and Down until the required setting is reached (C/F).
6. Display will flash 4 times and return to the temperature display.

Error Codes

ERROR CODE	ERROR TYPE	METHOD TO ADDRESS
E1	Battery Cut Out Activated	<ul style="list-style-type: none"> • Check that source voltage is above the set Cut Out level - Adjust as required • Check Operation on another power source
E2	Cooling Fan Issue	<ul style="list-style-type: none"> • Call Ironman Customer Service
E3	Compressor Start Up Issue	<ul style="list-style-type: none"> • Remove fridge from power source and wait for 10 mins before reconnecting • Try connection to Alternate Power Source • Potential Control System Issue - Contact Ironman Customer Service
E4	Compressor Speed to Low	<ul style="list-style-type: none"> • Remove fridge from power source and wait for 10 mins before reconnecting • Try connection to Alternate Power Source • Move unit to a lower ambient temperature area • Clean and ensure all vents are clear to ensure uninterrupted air flow across compressor & cooling system
E5	Extreme Ambient Temperature	<ul style="list-style-type: none"> • Move unit to a lower ambient temperature area • Clean and ensure all vents are clear to ensure uninterrupted air flow across compressor & cooling system

Warranty



This fridge / freezer comes with a Total 5 year warranty from the day of purchase under the following conditions.

Any warranty claims exclude parts such as fuses, connectors, plugs, etc.

- All defects are variably attributable to material or production errors.
- Warranty claim must be made within the warranty period.
- Purchase receipt must be presented with unit warranty claim.
- Improper use of unit will void warranty.
- Warranty will be void if the unit is run with supplementary parts or accessories from other manufacturers.
- Warranty does not cover fridge content spoilage or loss.

Claims other than the above are not covered by warranty, Ironman 4x4 reserves the right to repair or replace at our discretion.

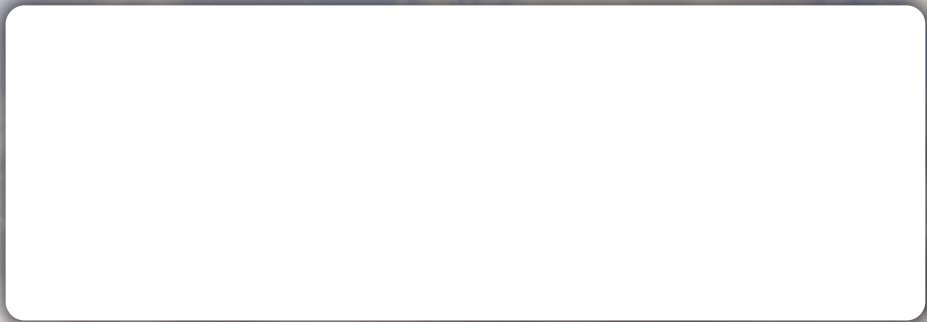
For any service issues or warranty claims Please contact

Australia: Ironman 4x4 1300 721 137

USA: Ironman 4x4 855 476 5714

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