

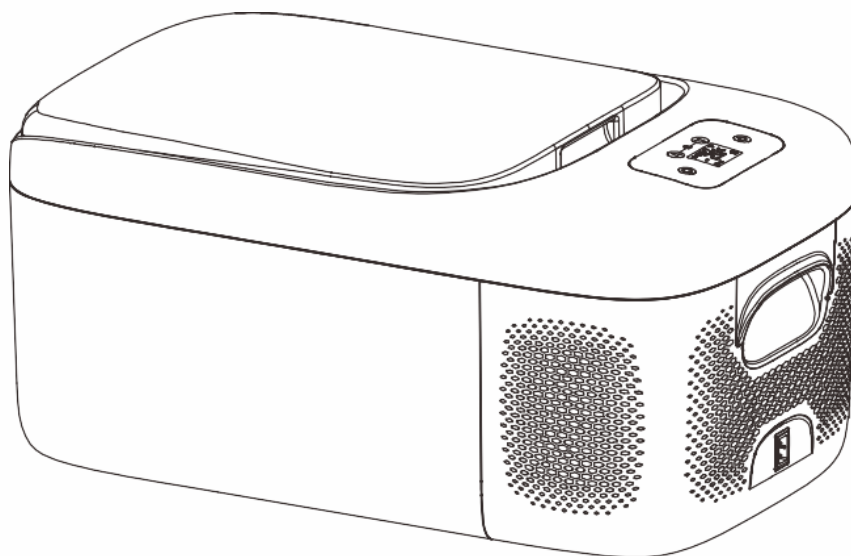


GRANIT
QUALITY PARTS

Operating Instructions

Cool box

11156553






These operating instructions must be read thoroughly before use and followed carefully.
Please retain these operating instructions for future reference.

Translation of the original operating instructions

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1 About these operating instructions and symbol descriptions

	Incorrect operation may lead to serious injury or death.
	Incorrect operation or negligence may result in personal injury, damage to the equipment or faulty measurements.
	Advice and tips for operation.

- Numbers in the figures (1, 2, 3 ...) refer to the corresponding numbers in brackets (1), (2), (3) ... in the text next to the item numbers in the tables.
- Instructions for which the order must be followed are numbered (1, 2, 3, ...).
- Lists are marked with bullet points (•, •, ...).

2 Safety and accident prevention regulations

2.1 General safety instructions

- Do not touch the exposed power cord with your hands.
- Do not bring water into contact with the power socket and control panel, as this may cause a short circuit or danger.
- If you use this product on board, please make sure that the power supply lines and fuses can conduct sufficient current.
- Make sure that the power connection is correct; do not immerse the device in water.
- Do not put cans, beer etc. in the cool box to freeze them at low temperatures. Do not put any electrical devices in the cool box.
- Only have the device maintained by specialists, or contact your dealer.
- Do not expose the device to rain or strong sunshine for extended periods. After receiving and unpacking the cool box, please let it stand for at least 6 hours before switching it on.

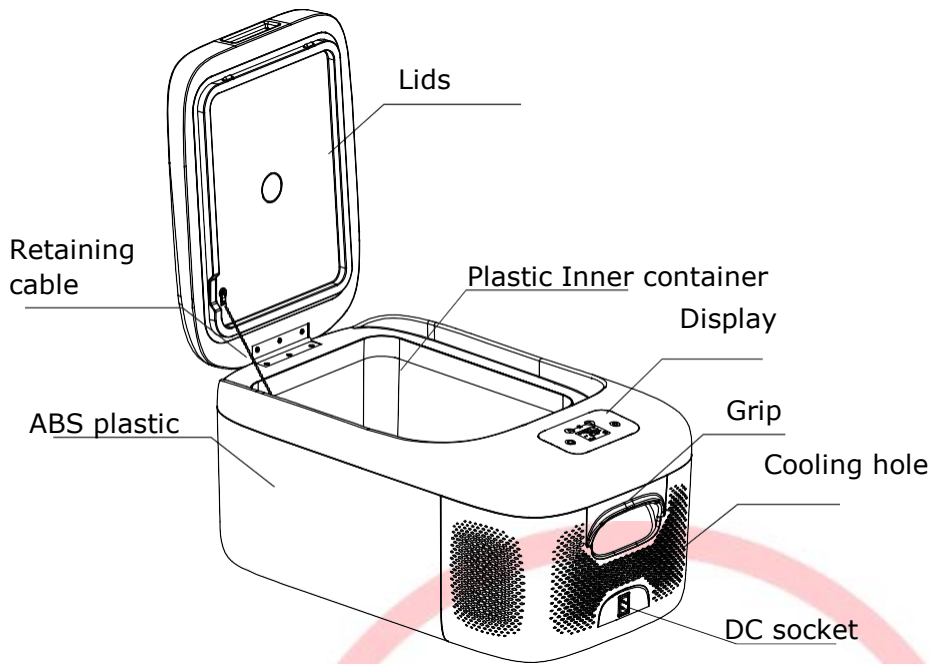
3 Performance specifications

3.1 Technical data

Art.-number	11156553
Input voltage	DC 12 V/24 V
Temperature control range	-20°C ~+10°C (32°C ambient temperature)
Refrigerants	R134a
fixings	ABS
Rated power	45W±20%
Rated current	3.75 A
Sound level	≤45 dB
Volume	25 L
Net weight	10.5 kg
Gross weight	12.5 kg
Product dimensions	568 mm x 330 mm x 332 mm
Package dimensions	634 mm x 384 mm x 412 mm

3.2 Description of functions and main components

- A high-quality DC variable frequency compressor and drive module are used to provide a high-efficiency, energy-saving, stable and reliable mobile refrigeration system.
- Microcomputer intelligent control system, easy to operate, accurate temperature control.
- Compatible with a variety of power inputs, intelligent recognition
- of DC 12/24 V which meets the needs of various situations: car, boat, home, outdoors if required.
- With the function of voltage detection and low-voltage protection, it can effectively prevent the car battery from over-discharging. The inner container is made of high-grade plastic material, which is safe, leakproof and odourless.
- Intelligent touch key operation and child lock function to prevent accidental activations



3.3 Contents

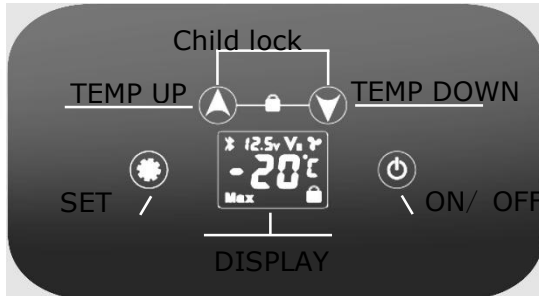
- Car cool box
- DC Cigarette Lighter
- AC/DC power supply

4 Operation of the cool box

4.1 Precautions for use

- When using the cool box, please put it in a well-ventilated place which is conducive to heat dissipation. Especially, the gap between the cooling hole on the compressor side and other objects must be greater than 100 mm, so as to prevent high temperature from causing failure or affecting the refrigeration effect.
- Please do not leave the door open for a long time, as the temperature difference between the inside and outside of the cool box will be too great and frosting will affect the refrigeration effect.
- Do not clean the cool box under tap water.
- Do not use the cool box near a heat source, as it will reduce the refrigeration performance of the cool box.
- Please do not use the cool box on a steep slope for a long time. This may affect the service life of the cool box and reduce the refrigeration efficiency.

4.2 Precautionary measures for basic use



- Temperature control range: $-20^{\circ}\text{C} \sim +10^{\circ}\text{C}$
- Temperature display range: $-30^{\circ}\text{C} \sim 40^{\circ}\text{C}$
- Standard voltage input range: DC12V / 24V, no more than maximum DC30V

4.3 Functional description

4.3.1 Switching on and connecting the cool box

Connect the correct DC12 / 24 V power supply. If the cool box is in standby mode, press and hold the on/off key for 2 seconds to complete the startup. After startup, the display will normally show the current temperature and working mode of the incubator. After the startup delay (1 minute factory preset), the cool box will operate in working mode and the compressor will start to refrigerate.

4.3.2 Cool box keypad locking and unlocking

If the keypad is locked (the child lock icon in the lower right corner of the display is on), press and hold the "up / down" key for 3 seconds at the same time to release the lock. If the child lock system does not light up and there is no operation for 20 seconds, the keypad will automatically be locked.

4.3.3 Cool box temperature setting

When the keypad is unlocked, press the "up/down" key to adjust the temperature of the cool box (a group of temperature values on the display will flash to show the current set value). Each time you press the key, the temperature rises or falls by 1 degree. If you hold the key, you can quickly adjust to the required temperature value. If there is no change within 5 seconds, the setting value will be saved automatically.

4.3.4 Setting the compressor operating mode

If the keypad is unlocked, press the "set" button to freely select the "Eco / Max" compressor operating mode. If you need to quickly cool to a lower temperature, switch to the "Max" mode. If you only need to refrigerate or keep warm, you can set to the "Eco" mode to save energy and power.

4.3.5 Setting the low-voltage protection function

This product has the function of low voltage protection. If it detects that the battery voltage is lower than the set value, it will automatically turn off the compressor to prevent over-discharging from damaging the battery or not allowing the car to start normally. At this time, the display screen will display "E1" code prompt. If the voltage returns to normal, the cool box will automatically enter the operating state one minute later. The factory default is "medium". If you need to change it, please follow the following steps:

a: Unlock keyboard

b: Keep the "SET" key depressed for 6 seconds, release it after hearing the beep of the buzzer, and then press the "SET" key briefly. At this point, one of the battery protection level icons, "L, M or H", will flash on the display. Then press the

"up/down" key to change the setting. Specific value

Battery protection	Display symbol	12Vcut-off	12Vcut-in	24Vcut-off	24Vcut-in
Low	N	9.6 V	10.9 V	21.3 V	22.7 V
centre	M	10.4 V	11.7 V	22.8 V	24.2 V
High	H	11.1 V	12.4 V	24.3 V	25.7 V

NOTICE

If your cool box enters the battery protection mode prematurely, it is likely that your power supply voltage is insufficient and the low-voltage protection value is set too high. Or the wiring of your DC power supply is not suitable and cannot provide enough power. Check whether the power supply wiring is suitable, and consider appropriately lowering the battery protection grade. In order to ensure that the car can start normally, it is recommended to set the protection level at "H" when using the cool box in the car.

4.4 Cleaning and maintenance

Before cleaning, it is necessary to disconnect the power supply and wipe the inner and outer surfaces of the cool box with a cleaning cloth dipped in an appropriate amount of water or detergent. It is not allowed to wash directly with water to avoid damaging the electrical components.

If the cool box is not used for a long time, the inside and outside must be cleaned and kept dry, and measures must be taken to protect it against moisture and dust, and to prevent mould formation and unusual odours inside the cool box.

4.5 Error code description

If the compressor, module, fan or temperature measuring head are working abnormally and the input voltage is too low, the error code will appear on the display screen, and the compressor will stop working. Once the abnormality has been rectified, unplug the power supply and plug it in again to return to the temperature display in the box; the cooling mode of the compressor will start working after 1 minute.

Error code	Problem description	Remedy
E 0	Temperature sensor head is damaged	Check or replace the temperature sensor head
E 1	Input voltage too low	Check the input voltage and adjust the battery protection level
E 2	DC fan over current protection	Check the cooling fan
E 3	Abnormal start of compressor	Turn off the power and let it stand for 30 minutes
E 4	Abnormal compressor speed	Adjust compressor operation mode (MAX/ECO)
E 5	Module temperature too high	Move the cool box to a well-ventilated location to lower the module temperature

5 FAQ

If the product does not work properly:

- Check whether the power is on
- Check whether the voltage is too low
- Check all connections from battery to cool box for looseness or poor contact
- Check the fuse
- Check whether the cool box is turned on; check if the temperature is set too high

If the cooling efficiency is poor:

- It may be that too much food has been packed in the cool box
- The temperature of the food in the cool box is too high. Check whether:
 - The lid is not closed correctly
 - The lid seal (sealing ring) is not damaged
 - There is good ventilation around the cool box
 - The ambient temperature is not too high
 - The temperature setting is correct

I can hear the sound of “water flowing” in the cool box

- This is normal. It is caused by the flow of refrigerant

When the cool box starts up, the sound is loud

- If the cool box is placed with the compressor side on a flat horizontal surface, check the surrounding objects for vibrations
- When the compressor is started, when the motor changes from static to high speed, the sound will be slightly louder. Once the speed is stable, the sound will decrease, which is a normal phenomenon

There are water drops around the housing or door seal

- It is normal for moisture in humid air to liquefy and condense water droplets when it comes into contact with a lower temperature shell

6 EU Declaration of Conformity

The manufacturer,

Wilhelm Fricke SE
Zum Kreuzkamp 7
DE-27404 Heeslingen

hereby declares on its sole responsibility that the cool box

type/series identification: **11156553**

conforms to the provisions of the

2014/30/EU

EMC Directive

2014/35/EU

Low-Voltage Directive (AC/DC power supply)

The product has been developed in accordance with the following standards:

EN 50498:2010

Authorised documentation representative:

Mr Eike Viebrock
Wilhelm Fricke SE
Zum Kreuzkamp 7
DE-27404 Heeslingen

The serial number and model year are shown on the type plate of the equipment.



Heeslingen, 12/05/2022

Holger Wachholtz, Board of Directors

Translation of the original Conformity Declaration

7 UKCA Declaration of Conformity

The manufacturer,

**Wilhelm Fricke SE
Zum Kreuzkamp 7
DE-27404 Heeslingen**

declares under their sole responsibility that the cordless angle grinder

Type/series identification: **11156553**

conforms to the provisions of

Electromagnetic Compatibility Regulations 2016

Electrical Equipment (Safety) Regulations 2016 (AC/DC Adapter)

The product was developed in accordance with the following standards:

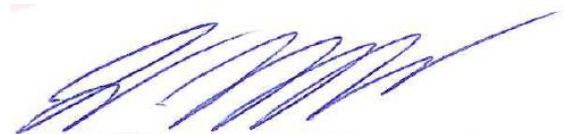
BS EN 50498:2010

Authorised person for documentation:

Mr Eike Viebrock
Wilhelm Fricke SE
Zum Kreuzkamp 7
DE-27404 Heeslingen

The serial number and model year are shown on the type plate of the equipment.

Heeslingen, 12/05/2022



Holger Wachholtz, Executive Board

Original UKCA Declaration of Conformity

8 Disposal

If a product is marked with the symbol of a dustbin with a cross through it, this indicates that the product must not be disposed of with the household waste. In the case of batteries or rechargeable batteries containing mercury (Hg), cadmium (Cd) or lead (Pb), the chemical symbol is shown under the crossed-out dustbin symbol. The end user has an obligation to return the batteries or rechargeable batteries. These can be returned free of charge to the retailer or handed in at any collection point. Electronic devices and rechargeable batteries should be handed in separately from each other. Make sure that the batteries or rechargeable batteries are in a discharged state or protected from short-circuiting, if applicable. When purchasing products, try to ensure that the products have a long service life to minimise the amount of waste produced. If your electric or electronic device contains personal data, you are responsible for erasing it.

Because of the substances they contain, improper disposal of batteries or rechargeable batteries can harm the environment and human health. Special care should be taken when handling batteries containing lithium. Products should be checked to see if they can be re-used, for example by being repaired, before you dispose of them.

!!! Always observe local waste disposal regulations!!!

9 Warranty

The warranty terms of Wilhelm Fricke SE, as can be found in the sales documents and the current version of the Terms and Conditions, apply.

In case of questions, please contact the company's customer service department.

10 Addresses

Sales/customer service/
Spare parts sales:

Tel.: +49 (4281) 712 712
Fax: +49 (4281) 712 700

Postal and delivery address:

GRANIT PARTS Limited Partnership
Zum Kreuzkamp 7
DE-27404 Heeslingen

11 Legal notice

Translation of the original operating instructions for the cool box
Manufacturer: Wilhelm Fricke SE - DE-27404 Heeslingen
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