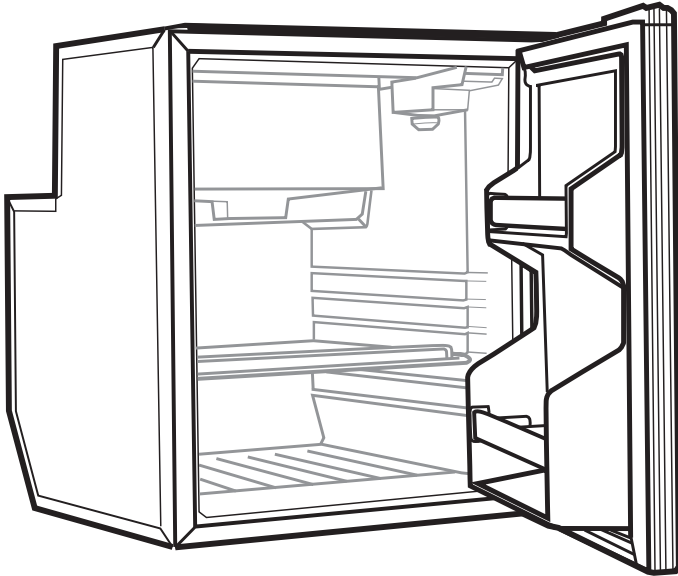


ICECO

User Manual and Product Specifications

Fridge/Freezer



Read user manual before operating your fridge/freezer !

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GENERAL INFORMATION

The ICECO refrigerators guarantee performance and reliability. The 12 and 24 V power supply makes them especially versatile. The power source can either be a battery, a transformer or a photo-voltaic panel. Provided with a totally watertight compressor, they offer a minimal power consumption and noise level. All the models are extremely easy to install. They can work even if they are assembled at a slant of up to 30°. In order to make sure that your ICECO refrigerator works as efficiently as possible, please pay attention to the following general instructions:

- Opening the door of the refrigerator uselessly increases the waste of energy;
- Proper ventilation of the compressor and of the condenser unit reduces the energy consumption and also ensures the yield;
- The wiring system of the vehicle is in proper condition. Routinely check the batteries and the charge level. Follow the instructions about the cable cross sections and the fuse connections strictly;
- Keep the inside of the refrigerator clean and dry. Remove any condensate water which might gather in the tray under the freezer compartment;
- Keep the door of the refrigerator slightly open in order to air it out if you do not use it for a long time, for example in winter (fig. 1-2).



NOTICE

Do not install the refrigerator near heat sources.

ASSEMBLY

The refrigerators of the ICECO are pre-set for being assembled in a niche.

Fastening can be done on the front plate band.

It is very important for the refrigerating unit, consisting of the compressor and the condenser, to be well ventilated, with the cool air coming in from the bottom and going out from the top. You must ensure proper ventilation of the refrigerating unit. The air inlets and outlets must have a free cross section of at least 30 sq.in. (see ventilation diagrams in Fig. 3-4).

Take great care when handling the connection tube in order to prevent breakages (Fig. 5). The compressor must normally stand in a vertical position, but it will work equally well slanted by up to 30°.

WIRING SYSTEM: FUNCTIONS AND FEATURES

The Station of the compressor is a piece of electronic equipment which pilots the motor of the compressor and carried out all the controls and electrical protection of the system. Its main features are the following:

Protection of the battery with automatic turning off of the compressor when the feeding voltage reaches the minimum threshold (cut out)

The compressor will start up automatically again when the voltage goes back to normal values (cut in).

TABLE FOR BATTERY SAVER INTERVENTION VOLTAGES

FEEDING	CUT OUT	CUT IN
12 V	9.60 V	10.9 V
24 V	21.3 V	22.7 V

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WIRING CONNECTIONS

When you connect the refrigerator, you must remember the following:

1) Use cables having the proper cross section (see the table) to make the feeding lines. If possible, such cables should be without any joints on the leads which could lead to voltage falls.

If the wiring system of the vehicle is insufficient or not properly sized for the refrigerator, we suggest you connect it directly to the battery.

Note The use of cables having an insufficient cross section may lead to the compressor stopping even when the battery is charged.

CROSS SECTION CABLES mm ²	Maximum length of cables in metres	
	12 V	24 V
2.5	2.5	5
4	4	8
6	6	12
10	10	20

3) Any switches must have a breaking load not less than 20 A (10 A if powered at 24 Volt).

4) Make sure the polarity is right: connect the red cable to the positive terminal (+) and the black cable to the negative terminal (-).



Attention!

Never connect bare electric wires, and use only connectors of a size suitable to the cross section of the cable being used.

5) Protect the feeding line with a 15 A fuse.

REPLACING THE DOOR PANEL

You can replace the door panel without having to dismantle the door of the refrigerator, by proceeding as follows: remove the profile which anchors the panel, locate at the bottom of the door, using a screwdriver as a lever as shown on Fig 6, take out the three screws which hold the handle in place (fig. 8), fit in the new panel, letting it slide, and put back the fastening strip and the handle.

REVERSING THE OPENING DIRECTION OF THE DOOR

The door normally opens towards the right. To change the side, move the hinges, the support (A, B and C the support (A, B and C in fig. 7) and the handle (fig. 8).

SETTING THE INSIDE TEMPERATURE

The refrigerators are provided with a manual thermostat. Turn it clockwise to lower the temperature, and turn it counterclockwise to raise the temperature and activate the ON-OFF switch in its end position. the knob of the thermostat is located inside the refrigerator.

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FILLING

Do not put hot food into the refrigerator. Place the products in a position where they do not hit each other or break while the vehicle is moving.

Make sure the door is always well closed, and reduce opening time to a minimum.

DEFROSTING

Defrosting must be carried out when the ice layer is thicker than 4mm.

Set the thermostat at the OFF position. While defrosting, keep food and beverages in a cool place. Do not use any sharp metal object to remove the ice or frost. Do not start the refrigerator up again until it is completely defrosted and dry. Also empty the tray under the freezer compartment.

MAINTENANCE:

The ICECO refrigerators have a completely watertight cooling system, and do not need any maintenance or reloading of the coolant. The compressor is of a domestic type, is highly efficient and has an extraordinarily long life.

Maintenance merely consists in routinely cleaning the condenser from dust, at least once a year. Use a soft brush and no hard object. Keep the refrigerator clean inside, using warm water and a delicate detergent. When you are not using the refrigerator, keep its door slightly open. To do so, release the lock of the door using a coin or a small screwdriver (fig. 1 and 2).

USEFUL ADVICE

If it does not work, or works wrongly before referring to our after sales service, make sure that:

- a) power is not missing.
- b) the voltage which reaches the station is equal to the one shown on the plate.
- c) the connections are wrongly made.
- d) the flapped condenser is not jammed.
- e) the refrigerating unit is not near a source of heat.
- f) the fuse mounted on the feeding line is not blown.

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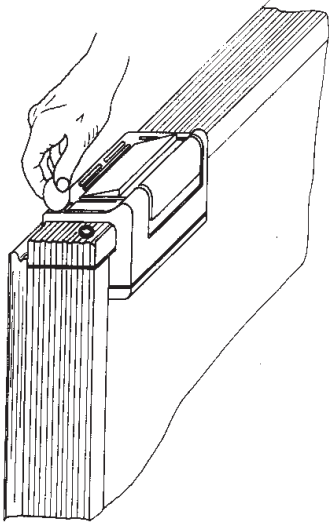


FIG. 1

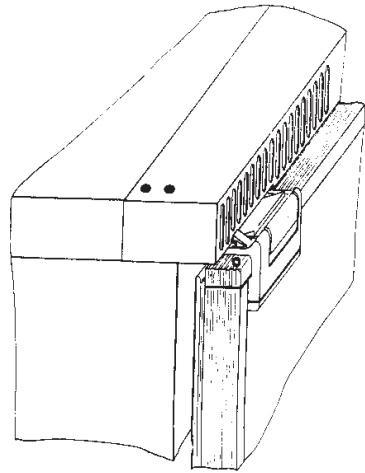


FIG. 2

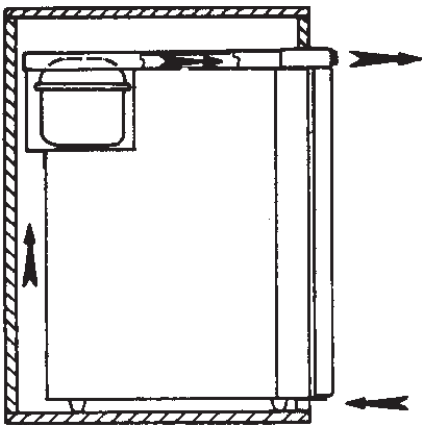


FIG. 3

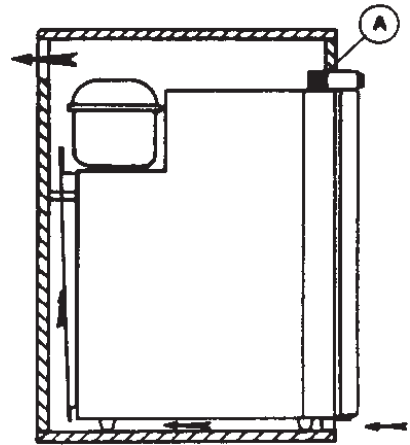


FIG. 4

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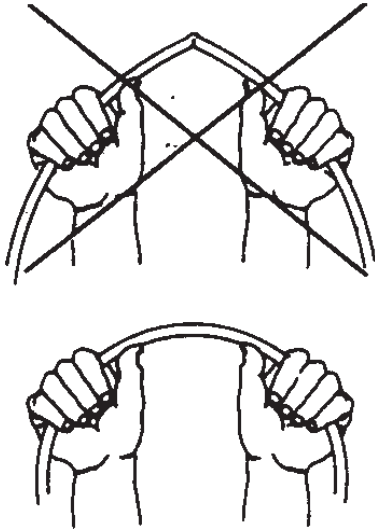


FIG. 5

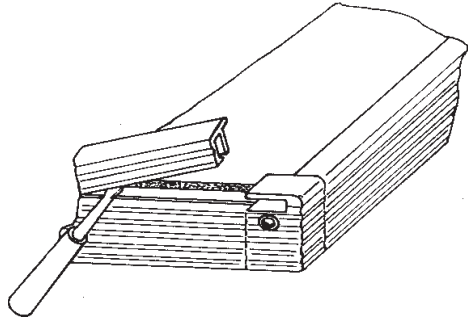


FIG. 6

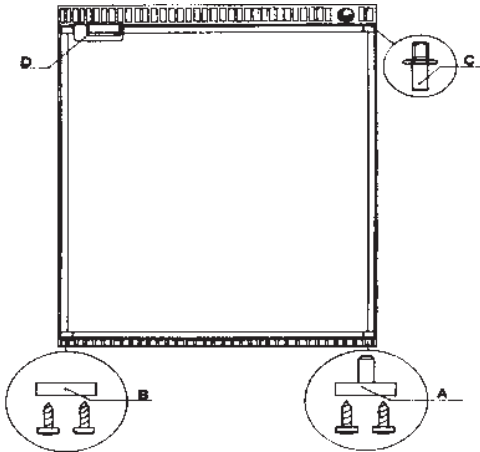


FIG. 7

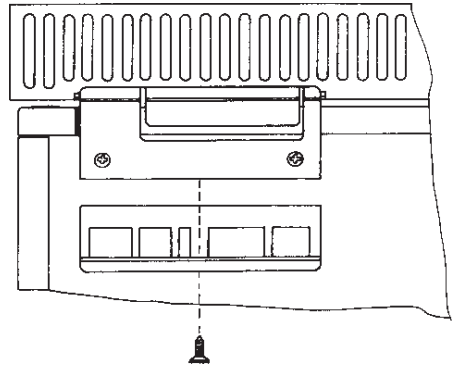


FIG. 8

