

100% solar FrigoMobile *Refrigerator or preserver*



FREECOLD, the French specialist in solar cooling, manufactures in France, the 100% solar powered FrigoMobile, the ideal solution to develop micro-enterprises in rural or peri-urban areas without electrification, in response to:

- the need for cold for fishing, food, breeding ...
- the need for communication: 1 hour of cell phone charge is sold for 0.15€ or 100FCFA
- to the need for lighting in the evening to prolong the sale, or at home, to generate a real income and develop a responsible, autonomous and sustainable economic activity.

The refrigerator is connected directly, without battery or regulator, to the photovoltaic module. Surplus energy of the day is transformed and stored in a cold accumulator integrated in the heart of the evaporator, the Ecotainer® FREECOLD, to be diffused slowly during the night and the days without sun, and to maintain cold quality in autonomy. With a capacity of 180 liters, the FrigoMobile refrigerator is equipped with this original and patented system, totally reversible and stable over time.

Refrigerator or preserver?

Because the transport, the conservation and the sale of meat, fish or ice do not present the same constraints as the sale of fresh drinks, FREECOLD proposes to replace the refrigerator of the FrigoMobile by a refrigerator producing a cold at lower temperature and equipped with 2 sliding windows, which allow the customers to see the goods inside.

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FREECOLD Ecotainer[®], autonomy assured

The cold is produced during the day to freeze an eutectic mass contained in the FREECOLD Ecotainer[®] which diffuses the cold during the night and on days with low sunshine, with a complete autonomy of 2 to 3 days depending on the outdoor conditions. With regular sunshine, the system allows permanent refrigeration in complete autonomy.

A complete equipment, a neat finish

Compliant with European CE regulations, easy to use with its aluminum inner tank, easy to clean, maintenance-free and with no running costs, the FREECOLD[®] FrigoMobile benefits from a high quality and reliability standard.

A++ performance

In the walls, 90mm of CFC-free expanded polyurethane foam limits cold losses
An intelligent electronic management system starts the compressor at low speed, accelerates progressively and uses the available energy as efficiently as possible, for minimum energy consumption.
As soon as the sun appears, even for a few minutes, the system produces cold.

The 100% solar FrigoMobile FREECOLD[®] is:

- ✓ A 180-liter solar refrigerator or freezer with high thermal insulation, totally autonomous with its Ecotainer[®] cold accumulator to avoid the use of expensive batteries with a limited life span (French design and manufacture);
- ✓ A 275 Wp photovoltaic module (European Union origin);
- ✓ A Solar Energy kit integrating 3 LED bulbs, an independent 4Wp photovoltaic module and a 4Ah lithium battery to create an animation by a lighting point and to prolong the sale in the evening thanks to an autonomy of 8h;
- ✓ A welded steel tube cart: FREECOLD provides the manufacturing and assembly plans for a local manufacture but can also provide the components that are difficult to find or to manufacture locally (20" wheels and rear swivel wheels, wheel supports, lateral wedges of the photovoltaic module, screws ...) or the complete cart, assembled, welded and painted, or in kit.

