

AUTOFRIDGE

EUTECTIC

PORTABLE REFRIGERATION

EUTECTIC REFRIGERATION

Eutectic refrigeration is simply the use of a compressor driven refrigeration system coupled with a cold storage device. i.e. A eutectic tank (sometimes called an "ice wall" or "ice bank")

This eutectic tank contains a liquid which is chilled and frozen during the refrigeration cycle. This mass of ice housed within the tank is capable of keeping the temperature of an insulated cabinet at refrigeration temperatures for long periods of time **WITHOUT RUNNING THE COMPRESSOR**. When the eutectic tank or "ice bank" has thawed the refrigeration system is run again to re-create the ice bank.

In a properly designed eutectic system the refrigeration system need only run once or twice each day with very long off periods between each run.

The advantage of the eutectic system is that the refrigeration system does not need a power source on a continuous basis, whereas a conventional system must have power available at all times. The eutectic system can be run when sufficient power is available (such as when driving during the day or while the solar power is available) and then turned off at which time the "ice bank" continues to refrigerate the fridge contents.

The eutectic fridge will use much less battery power over time than a conventional system.



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