

Auto-Fridge 73 Litre Fridge/Freezer

12V/24V dc

This Auto-fridge can work either as a fridge OR a freezer without the need for continuous power. Using Eutectic insulation, an ingenious idea developed purely for the Aussie outback, the "ice-bank" keeps the fridge temperature down, and so you can run it in 2 ways:

1. "Eutectic" operation: Set fridge on a timer, for 2 hours in the morning and 2 hours in the evening (18Ah).
2. "Cyclic" operation: Whilst driving/or being charged by solar, the fridge will run when required. Set thermostat at 1 or 2 for cooling, fridge runs for about 5 hours a day: 24Ah/day. Set thermostat at 5, 6 or 7 for freezing and you'll find the power consumption at around 46Ah/day.

Made of rugged fibreglass and using the best Danfoss Compressor, Australian designed, owned and made Auto-fridge is the ideal travelling companion for your motorhome, caravan or next roadtrip.

TECHNICAL SPECIFICATIONS		RPC Code: APL-A073	
Gross Capacity	75 litre	Length	840mm
Cooling/Freezing Capacity	75 litre	Width	480mm
Danfoss Compressor	BD35F	Height	510mm
Nominal current draw	4.5A	Weight	35kg
Daily consumption: fridge	220Wh/day (12V)	Warranty	2 years
Freezer	440Wh/day (12V)		



RAINBOW POWER COMPANY LTD

Designers and Installers of Solar Systems since 1987

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Eutectics explained

In a conventional compressor powered refrigeration system the 'cold side' of the system is called the 'evaporator'. The evaporator is mounted inside the fridge cabinet and makes everything cold when the compressor is running. When the compressor turns off, the fridge warms up. The system starts up again to bring the temperature down. This process continues constantly and is controlled by the thermostat - all very simple and in most cases reliable.

Eutectic refrigeration is simply the use of a compressor-driven refrigeration system coupled to a cold storage device, i.e. eutectic tank (sometimes called 'ice bank' or 'ice wall'). The 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 box 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-establish the ice bank. In a properly designed eutectic system the refrigeration system only needs to be run once or twice daily with very long periods between each run.



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