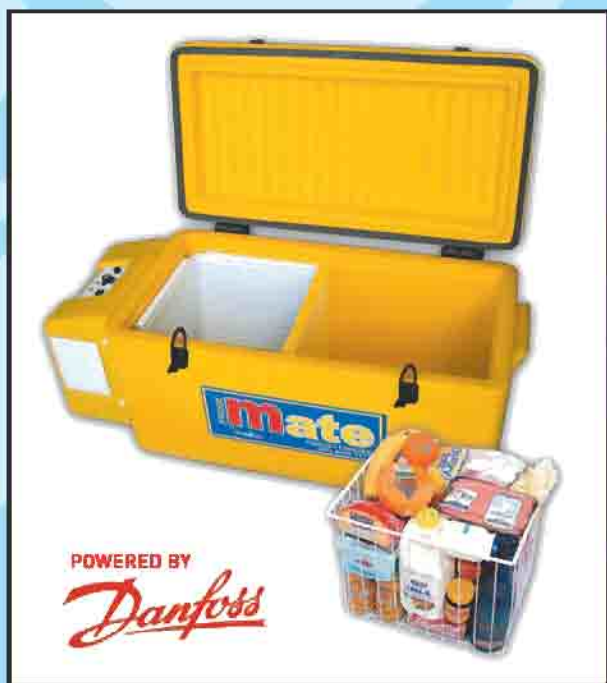


FRIDGE **mate**
By *evaKOL* **FRIDGE • FREEZER**

PORTABLE FRIDGE / FREEZER

Owner's Manual & **WARRANTY**

'FM MODEL'



AUSTRALIAN OWNED



AUSTRALIAN MADE
FROM IMPORTED
& LOCAL COMPONENTS

QUALITY & PERFORMANCE - THE LASTING IMPRESSION

Thank you for purchasing a FridgeMate Fridge Freezer.

The unit you have chosen has been proudly manufactured in Australia by Australians using IceMates's legendary insulated cabinet combined with world renowned German made Danfoss compressor technology and using imported and local components.

We recommend you carefully read this manual prior to operating your FridgeMate as it contains important information regarding your unit's operation, maintenance, care and terms of warranty.

This unit is designed to operate only from either a 12 volt or 24 volt power source. 240 volts mains power can be used with an EvaPower 120 watt AC adaptor. It can also be operated in remote areas from solar and generator power sources.

Please refer to page 3 for instructions.

All FridgeMate products are specifically designed to withstand Australia's harsh operating conditions and if treated with care, will provide you with years of trouble free service.

Nexberg Pty. Ltd.
Caloundra
Queensland
Australia

November 2005

INSTALLATION

Your FridgeMate fridge/freezer is designed to operate from either a 12v or 24v DC power source. We recommend an EvaPower 120w AC adaptor to use with 240v mains power. When using solar panels, wind or power generators, ensure that the unit is connected through a 12v or 24v battery. Use anti-surge devices when there is a possibility of 'spikes' from the power source.

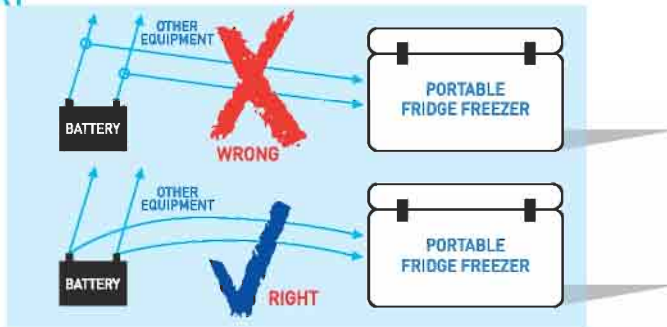
The correct manner to connect your unit is illustrated below. Please note: The fridge is set to cut-off immediately at 10.4v to protect your battery/power source. It will start automatically when adequate power is restored.

For maximum efficiency, we recommend the unit is installed on a level surface, although, if necessary, the fridge will operate on surfaces at an angle of 30°.

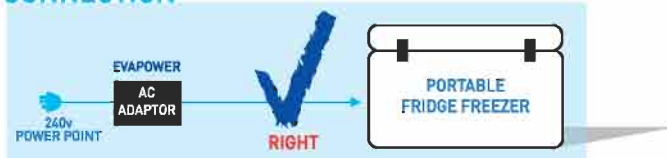
DO NOT block air flow to your fridge. Ventilation is very important to ensure efficiency and reliability. Poor ventilation will cause the compressor to over-heat and hence reduce its life span and efficiency.

ELECTRICAL CONNECTION - 12volt OR 24volt DC

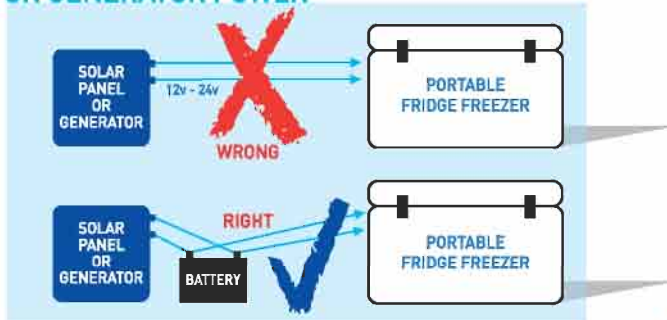
BATTERY



MAINS CONNECTION



SOLAR OR GENERATOR POWER



Operating INSTRUCTIONS

NORMAL OPERATION

- Always ensure you switch the fridge 'off' before connecting to a power source.
- Push cigarette lighter plug into 12 volt or 24 volt power outlet.
Note: If using a plug other than the cigarette lighter plug, ensure that the polarity is correct ie.: positive to positive and negative to negative.
- Connect the other end of the lead to the fridge.
- Turn the thermostat control dial out of the 'off' position. The green 'power' light will stay on.
- The compressor will start and about two seconds later the fan motor will start. Thereafter the red 'cycle' light will come on indicating the fridge is running and the evaporator plate inside the fridge will start to cool.
- Turn the thermostat control dial to its coldest setting in order to cool the unit and its contents. Once the required temperature has been reached, set the dial at the desired temperature for either fridge or freezer operation.
- In order to save power, you may turn down the thermostat setting when the unit is not to be opened for lengthy periods, eg. overnight.

HELPFUL HINTS:

- When you first start the fridge, remove the insulated divider to bring the temperature of the fridge cabinet down quicker. Once the temperature is down to the desired level, re-fit the divider to your selected position.
- Remove divider completely to operate the whole unit as a freezer or as a fridge.

CONTROL PANEL Thermostat

- Turn knob clockwise to make the fridge colder and anticlockwise for warmer.
- Turn knob hard anticlockwise until it clicks into the 'OFF' position, this will cut the power to the compressor, the green light will stay on.

LED LIGHTS

- Yellow LED Fault Light
- Red LED Cycle Light
- Green LED Power Light

POWER INLET

The power inlet socket is notched, so it can only be connected in the correct way. It has a threaded ring to lock the plug into place.

FUSE

10-amp slow blow fuse.

Operating INSTRUCTIONS

NORMAL/ECONOMY SWITCH

- The RPM or speed of the compressor can be changed, from economy (2000 RPM) to normal (3000 RPM), with a flick of the normal/economy switch.

Economy mode will decrease your power consumption but only in ambient temperatures up to 30°C.

Care & STORAGE

USAGE:

- DO NOT put hot or warm goods in the freezer.
- Ensure that the lid is always kept shut.
- Ensure that there is adequate circulation of air around contents.

DEFROSTING:

- Switch off freezer and leave lid open
- DO NOT use sharp objects when cleaning and defrosting your FridgeMate. Keep your FridgeMate clean by wiping both the interior and exterior with a damp cloth using a mild non-abrasive household detergent and dry thoroughly.
- DO NOT hose out the fridge with water.
- DO NOT turn the fridge on until completely defrosted and dry.

WARNING:

- **DO NOT place your AC adaptor or any electronic equipment inside your fridge as this will cause condensation in such equipment which will likely cause fusion of that equipment when switched on and will void its warranty.**

PREVENTATIVE MAINTENANCE:

Remove the six screws holding on the cover, drop cover forward and clean coil.

DO NOT USE WATER TO CLEAN COIL.

FAILURE TO REGULARLY CLEAN THE CONDENSOR COILS CAN VOID WARRANTY.

STORAGE:

- When storing your FridgeMate for any lengthy period, prop the lid open a few millimetres to prevent the build up of mould or odours. Spray interior, if necessary, with a food grade anti-mould/odour product.
- We recommend that your fridge is operated at regular intervals if it is being stored for any length of time. But why store when your FridgeMate can be used in the home as an additional fridge or freezer by using your EvaPower AC adaptor. (see page 3)

IMPORTANT TIPS:

- DO NOT run your fridge near flames or sources of heat. Preferably keep it in a cool position away from direct sunlight.
- Ensure the air vents are never blocked and that there is adequate air circulation around the fridge.
- DO NOT keep the lid open longer than necessary.
- Always use the basket where provided to facilitate air circulation.
- When travelling on rough roads, place about 50mm of high density foam under the fridge and secure the unit using tie down straps through the handles.
- Ensure that the fans and condenser are periodically cleaned to ensure adequate air flow through the condenser. If unit is to be exposed to rain or water, spray with Lanogard or WD40 at least every three months.

Fault Finding GUIDE

refer to the
**TROUBLE SHOOTING
FLOW CHART**

FRIDGE NOT RUNNING?

Is the RED light on?

NO

- Check power supply
- Check that the lead is plugged in properly, and no wires are loose.
- Check that thermostat is not in the "OFF" position.
- Check the fuse in the cigarette plug and in the control panel.

YES

- Try starting in both normal and then economy positions.
- If the Red light is on and the fridge is not running, call our Service Department on 07 5492 7777

FRIDGE RUNNING BUT NOT COOLING?

- Is the yellow light flashing? - refer self diagnostic system below.
- Make sure that the compressor is running and not just the fan motor.
- If the compressor is running and the fridge is not cooling, call our Service Department on 07 5492 7777

FRIDGE IS TRYING TO START BUT KEEPS CUTTING OUT?

- Is the yellow light flashing? - refer self diagnostic system below.
- Low voltage. Check your supply.
- Voltage drops. Read section on voltage drop.

YELLOW LIGHT FLASHING?

The Danfoss compressor has its own self-diagnostic system, if the yellow light is flashing, count how many flashes in each set. It will flash a series of between 1 and 5 flashes every four seconds.

1 Flash

The fridge is cutting out because the supply voltage is outside the cutout setting.

- Check power supply for voltage drop.

2 Flashes

Condenser fan problem. Contact Service Agent.

3 Flashes

Blocked rotor or the differential pressure in the system is too high. Contact Service Agent.

4 Flashes

If the system is too heavily loaded the motor cannot maintain minimum speed. Contact Service Agent.

5 Flashes

The compressor is cutting out on its thermal protection.

- Ambient temperature is too high.
- Condensor coil is blocked with dirt and fluff.
- Condensor fan motor failed.
- Air vents on the side of the unit are blocked.

The condensing coil in your refrigerator is like a radiator in your car, if the fan that is cooling it stops, or the fins in the coil get blocked with dirt and fluff, the compressor will over heat and cut out on its thermal protection.

SIMPLE TESTS:

- **Fridge does not operate in your vehicle:**

Run the fridge from a 240 volt power source via an AC adaptor. If the fridge starts and runs then the problem is with your vehicle, either the battery or wiring.

See section on voltage drop (AC adaptor, minimum of 10 amps @ 12 volts or 5 amps @ 24 volts).

Our EvaPower range of AC adaptors deliver both 12 and 24 volts.

- **Fridge does not operate from a 240 volt power source when using an AC adaptor:**

Run the fridge from a fully charged 12 volt battery source. If the fridge starts and runs, then the problem is with the AC adaptor.

- **NOTE:** It is important to ensure in all cases that the voltage at the end of lead connecting to the fridge is adequate. ie: above 11.0 volts.

Voltage Drop & WIRING REQUIREMENTS

VOLTAGE DROP

The majority of our customer inquiries are related to voltage drop, which means the power to run the fridge is lost between the power supply (the battery), and the fridge compressor.

The Danfoss compressor requires over 10.4 volts (12 volt) and 22.8 volts (24 volt) to operate.

If the voltage drops to these points or below, the fridge will default, you will hear the compressor trying to start every minute or so.

WHEN VOLTAGE DROPS OCCUR:

- a. The cigarette lighter socket in your car or 4WD will have on average 3mm wiring. This wiring is too thin and will drop voltage from one end to the other. Danfoss recommend a minimum of 6mm auto cable and if the distance from the power source is over 6 metres, 10mm wiring is required. Consult an auto electrician should you need to upgrade.
- b. Check for dirty or loose connections at the battery and outlet.
- c. Are there any relays or after market voltage protection devices in the line to your fridge. These also have voltage drops through them.
- d. Check that your battery doesn't drop voltage under load.

TERMS & CONDITIONS OF WARRANTY

EvaKool will repair free of charge or replace at their discretion your FridgeMate fridge/freezer if the unit's failure is as a result of faulty workmanship and/or materials, subject to the following warranty conditions.

Period of Warranty:

60 (sixty) months on the FridgeMate.

The above warranty periods commence from date of purchase by the original purchaser from an authorised EvaKool dealer.

- EvaKool will honour this warranty on presentation of proof of purchase of the unit to EvaKool or its approved service agent. The service agent may be requested to provide EvaKool with a photocopy of the proof of purchase to obtain approval to proceed prior to the warranty being honoured.
- Please telephone (07) 5492 7777 for a warranty authorisation number and name of authorised service agent. It is the purchaser's responsibility to freight the unit to and from the service agent indicated by EvaKool.
- Warranty repairs may only be carried out by an authorised EvaKool service agent. EvaKool will not reimburse repair claims carried out by unauthorised service agents. Any tampering with any part of the unit by an unauthorised service agent will automatically void the warranty.
- Service agents may charge a fee for viewing or testing the unit. This is not covered by EvaKool or this warranty and is payable at the service point unless authorised by EvaKool prior to inspection.
- Any Danfoss authorised service centre in Australia is able to carry out repairs to the unit but a warranty authorisation number must be obtained prior to commencement of repair.
- EvaKool will not be held responsible for any damage or loss suffered or cost incurred in transit of the unit to and from the nominated service agent.
- EvaKool recommend that the unit is used together with the EvaPower range of power products. The minimum required AC adaptor amperage being 10amps at 12volts peak.
- EvaKool will not accept a warranty claim if:
 1. Modifications have been carried out to the unit without EvaKool's written authority.
 2. Damage to or failure of the units has been caused in EvaKool's opinion by incorrect, extreme or unreasonable use.
 3. Damage to or failure of the unit has been caused in EvaKool's opinion by misuse, neglect, accident, impact or other similar causes. Refer preventative maintenance guidelines.
- EvaKool will not accept any claims for consequential loss of any nature whatsoever arising from the malfunction or stoppage of this unit.
- The beneficiary of this warranty is the unit's original purchaser.
- EvaKool have total discretion on the variation of the warranty terms.
- This warranty cannot be varied by others.

COMPLETE THE ENCLOSED
WARRANTY CARD AND RETURN WITHIN
THIRTY (30) DAYS OF PURCHASE.