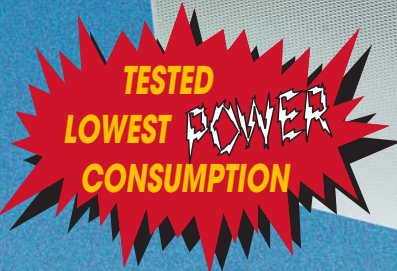


Double Door



4x4 Recreational Vehicle Equipment Specialists

Portable Refrigerator

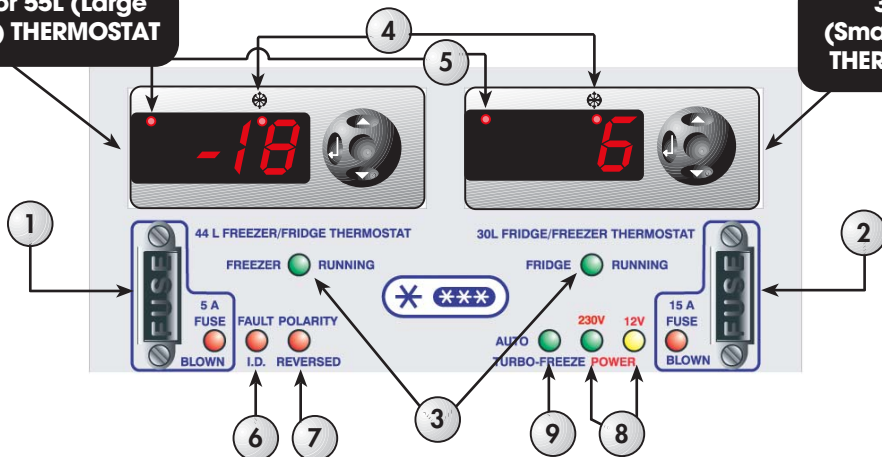


UNIQUE "DUAL" FRIDGE/FREEZER CAPABILITY

FEATURES AND PARTS LOCATION

44 or 55L (Large Bin) THERMOSTAT

30 or 40L (Smaller BIN) THERMOSTAT



- ① 5 Amp fuse for interior lights
- ② 15 Amp main fuse for protection. (Under no circumstances should aluminum tape or a larger fuse be fitted as this could cause irreparable damage to the electronics).
- ③ "Run" indicators. These lights indicate (in conjunction with thermostats and settings) that the cooling down process "Running" is active.
- ④ LED lights up when the thermostat detects that the bin needs to cool down.
- ⑤ This LED is only active during the programming setting of desired temperature stage.
- ⑥ This LED will indicate by means of a "Morse Code" flashing method a possible fault as follows:

Operational errors will cause the fault ID LED (Point ⑥ above) to flash a number of times. The number of flashes depends on what kind of operational error was recorded. Each flash will last 1/4 second. After the actual number of flashes there will be a delay with no flashes, so that the sequence for each error recording is repeated every 4 seconds.

Number of Flashes	ERROR TYPE
1	Battery protection cut-out (The battery voltage was below the battery cut-out setting. See page 12).
2	Fan over-current cut-out (The fan loads the electronic unit with more than 0.5 Amps or 1 Amp peak).
3	Motor start error (The rotor is blocked or the differential pressure in the refrigerator system is too high (>5 bar)).
4	Minimum motor speed error (If the refrigerator system is too heavily loaded, the motor cannot maintain minimum speed 1,900 rpm).
5	Thermal cut-out of electronic unit (If the refrigeration system has been too heavily loaded, and the ambient temperature is high, the electronic unit will run too hot).

- ⑦ In the case of an incorrect polarity (i.e. + 've swopped with - 've) connection in a vehicle, the red LED indicates this fault.
- ⑧ The power indicators reflect the type of power connected to your unit. (i.e. 12V dc or 230 V ac).
- ⑨ "Turbofreeze" LED indicates that the compressor is running at 3,500 revs, (High Speed). **The unit does this automatically on 230 V ac (mains power) and when the vehicle's engine is running. The unit automatically defaults to "Low Speed" (i.e. energy saving mode) when the voltage is below 12.6 V dc.**

ELECTRONIC THERMOSTAT

PROGRAMME SET

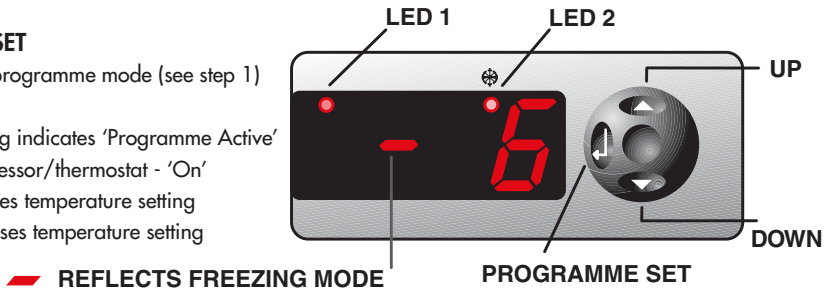
Depress to enter programme mode (see step 1)

LED 1 - Flashing indicates 'Programme Active'

LED 2 - Compressor/thermostat - 'On'

UP - Increases temperature setting

DOWN - Decreases temperature setting



SETTING OF THE ELECTRONIC THERMOSTAT

RECOMMENDED REFRIGERATOR/FREEZER TEMPERATURE

FOR FOODSTUFFS
6°C

**FOR BEVERAGES
A COLDER SETTING**
0°C to 2°C

**WHEN USING AS A
FREEZER, TO
MAINTAIN GOODS IN
A FROZEN STATE**
-6°C to -18°C

STEP BY STEP INSTRUCTIONS FOR SETTING ELECTRONIC THERMOSTAT

- STEP 1** Depress "Programme Set" button (for approximately 2.5 seconds) until the display changes - release immediately. Display will now read....diagram ①
- STEP 2** Immediately after releasing the "Programme Set" button - depress again for approximately 0.2 seconds
- The Indicator will now reflect the current (previous) temperature settings (in this example freezer set at -18°C)
- The programme LED 1 will now be flashing. Display will now read....diagram ②
- STEP 3** Depress "Up" set button to increase temperature to the desired refrigerator setting (per our example of +6°C). Release "Up" button when the display indicates you have reached the desired setting. Display will now read....diagram ③
- STEP 4** The flashing LED will stop automatically after approximately 10 seconds, and the display will reflect the current temperature inside the bin. Should the bin temperature be above your desired setting of +6°C the LED 2 will light up to indicate the compressor is switched on to lower the bin temperature. Display will now read....diagram ④



How to Set-Up the Dual Thermostats on your Double Door Fridge/Freezer

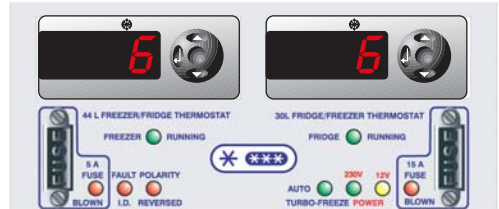
- For Maximum Efficiency and Optimal Use

The unique design of the National Luna Double Door Fridge / Freezer allows the user to set the refrigerator bin's individually as a fridge or freezer as required.

However, in order to achieve this unique setting ability, as well as to achieve an extremely efficient and low average power consumption, the refrigeration design limits the setting combinations to a best of **three** options.

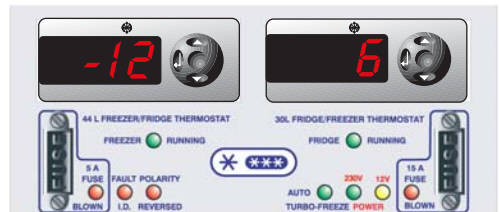
Option 1

The double door unit in this option has been configured as a fridge on both bins.



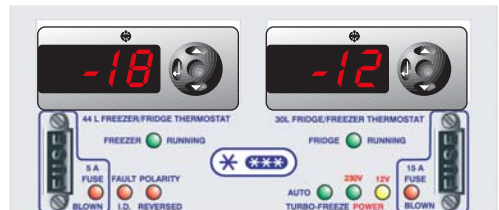
Option 2

This option has a freezer set in the (left) bin. The (right) bin is set to operate as a fridge.



Option 3

Option 3 is set to operate as a freezer using both bins.



Option 4



WARNING!!

The double door unit should not be set as a fridge (left bin) and freezer (right bin). The option to the left **IS NOT ADVISABLE**

The setting of the large bin as a fridge, and the smaller bin as a freezer **is not an option** (i.e. option 4). The reason for this is that in order to achieve maximum efficiency, (i.e. the lowest average battery power consumption), the gas flows within the unit are intentionally biased to flow from the small bin to the larger bin. When setting the unit as indicated in option 4, the freezing gas could flow into the large fridge bin and freeze the contents.

When the right side is set as a freezer, then the left side should not be used as a fridge. Both bins should be set-up to operate as freezers. (As per option 3).

FREEZER CALENDAR

MAXIMUM RECOMMENDED FREEZING PERIODS AT -18°C

THIS STAR ICON MEANS THE APPLIANCE HAS A FREEZER COMPARTMENT



3 STAR FREEZER RATING GUIDE

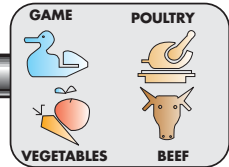
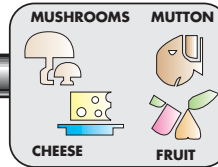
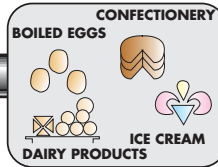
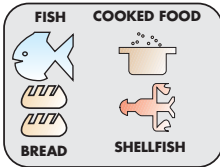
THESE THREE STAR ICONS EACH REPRESENT A -6 DEGREE C. ABILITY IN COOLING TEMPERATURE MAINTAINING -18 DEGREES C.

3 MONTHS

6 MONTHS

9 MONTHS

12 MONTHS



CARE AND CLEANING

Your refrigerator should be cleaned in the following manner, both on installation and when defrosting. It is important that you keep the inside and outside of your refrigerator/freezer clean to prevent bacteria and odours from forming. Remove all food and disconnect the power source before cleaning.



Failure to disconnect the power may result in electrical shock or personal injury.

DO NOT use metallic scouring pads, brushes, any abrasive cleaners or alkaline solutions. Use a soft sponge or a soft cloth.

Interior:

Wash the interior of the refrigerator with a mild household cleaner or 2 tablespoons of bicarbonate of soda diluted in 250ml of warm water. Rinse with warm water and dry.

Exterior: N.B. DO NOT use a garden hose to wash the refrigerator exterior as this could jet water into the electronics

Wash the exterior with the same solution as for the interior.

DO'S - ✓

- Routine simple and gentle cleaning
- Use cleaners showing "Suitable For Stainless Steel"
- Employ repeated Routine Cleaning rather than an aggressive single cleaning

DON'TS - ✘

- Use coarse abrasive powders
- Use metallic scourers (or brushes with metal bristles)
- Use the "Silver Cleaners"

Design Registrations:

- South Africa: 2001/0525/0526/0527/0528/0529/0530/0531/0538 A2002/00217/00218
- Australia : 1733/0021 1734/0021

MODEL	74 L	74 L	95 L
	Aluminium	Stainless Steel	
WEIGHT (KG)	39	43	49
ACTUAL VOLUME LEFT BIN	43.9	43.9	54.7
ACTUAL VOLUME RIGHT BIN	29.5	29.5	39.9
INTERIOR LIGHT	2	2	2
BASKETS	3	3	3
CURRENT DRAW @ -18°C Amps @12.5 V dc	2.5	2.5	2.5
AVERAGE CURRENT / PER DAY @32°C AMBIENT TEMP.	35A/hr	35A/hr	40A/hr
MIN. TEMP @ 43°C AMBIENT Right Bin	-12	-12	-12
Left Bin	-18	-18	-18

SPECIFICATIONS TABLE

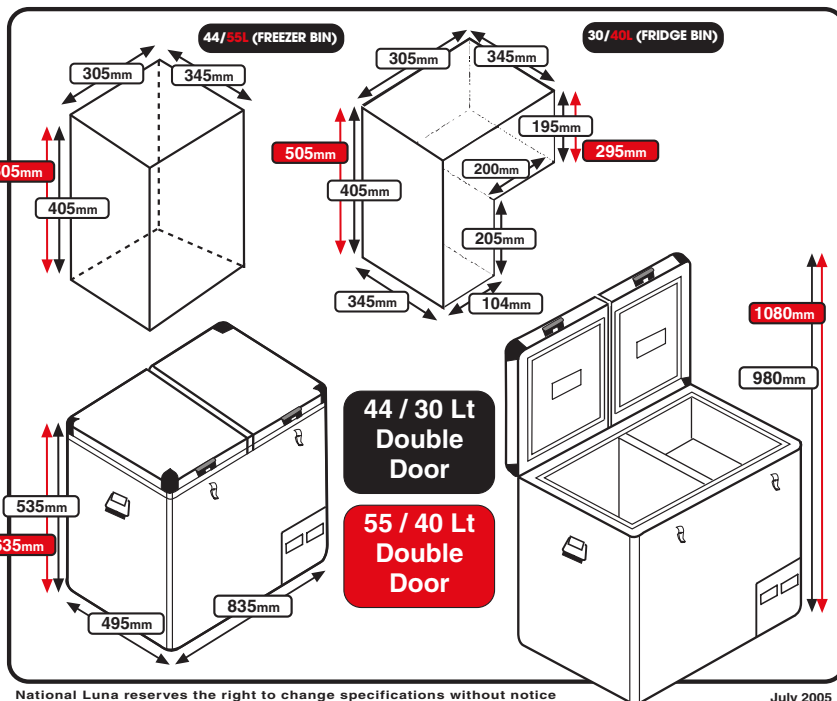
Standard Features

- LOCKABLE LIDS X 2
- 12/24 DC/230 VOLT AC POWER
- ELECTRONIC THERMOSTATS X 2
- LOW VOLTAGE BATTERY CUT-OUT
- 60 mm HIGH DENSITY INSULATION
- FAN ASSISTED CONDENSOR
- POWER/RUN INDICATORS X 2 SETS
- TEMPERATURE GAUGE X 2
- SPRING LOADED CARRY HANDLES
- GRADE 430 STAINLESS STEEL
- INTERIOR COURTESY LIGHTS

Design Registrations :

- Australia: 1733/0021 1734/0021

- South Africa: 2001/0525/0526/0527/0528/0529/0530/0531/0538
A2002/00217/00218



National Luna reserves the right to change specifications without notice

July 2005

Distributor

Technical Enquiries

www.nationalluna.com

© Copyright National Luna 2004

NATIONAL LUNA

E-Mail natluna@mweb.co.za

Tel : +27-(0)11- 452 5438

Fax: +27-(0)11- 452 5263