

FRONT OPENING DRAWER FRIDGE

USER MANUAL



**DRAWER
REFRIGERATION**

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Safety information

Failure to follow these instructions may result in damage to the appliance or injury to yourself and others.

- Suitable for camping use.
- This product is not designed for marine applications.
- Do not expose the appliance to water, rain, corrosive liquids or strong chemicals.
- Do not operate the appliance near explosive or flammable gasses or materials.
- Do not operate or store the appliance in high-temperature environments.
- Always operate this product on a stable surface.
- Do not invert the refrigerator during operation or storage.
- Do not store explosive or hazardous materials inside the fridge.
- Do not use in restricted spaces or areas with limited ventilation.
- Do not block or cover the ventilation holes.
- Do not push objects of any kind into ventilation slots or holes.
- Do not use the appliance for purposes other than indicated in this manual.
- This appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
- Children should not play with the appliance.
- Do not attempt to service this product yourself. Refer to a qualified technician.
- Ensure electrical supply meets the input specifications listed on the appliance.
- The appliance can be connected to one source of energy.
- **WARNING :** When positioning the appliance, ensure the supply cord is not trapped or damaged.
- **WARNING :** Do not locate multiple portable socket-outlets or portable power supplies at the rear of the appliance.
- Do not use damaged or modified power cables.
- Do not handle electrical cables with wet hands.
- The appliance is only to be used with the power supply provided.
- Do not fill the interior with liquid or ice without suitable water-tight containers.
- Store foods in original packaging or suitable containers.
- Clean interior surfaces that may be in contact with food regularly.
- Do not use any mechanical devices or other actions to accelerate the defrosting process.
- Do not use electrical devices inside the food storage compartments of the appliance.
- To maximise energy saving, please make sure the fridge lid is closed securely and only opened when needed.

This appliance is intended to be used in household and similar applications such as :

- Staff kitchen areas in shops, offices and other working environments.
- Farm houses and by clients in hotels, motels and other residential type environments.
- Bed and breakfast type environments.
- Catering and similar non-retail applications.

Safety information - continued

When used in a mobile application:

- Secure the appliance with straps or a mounting fixture designed for this purpose.
- Ensure cables are not under tension and are protected from areas of movement.
- Ensure cables are not exposed to sharp edges or risk of crushing.
- Use the appropriate cable size and type for dedicated wiring circuits (see page 5).

Drawer Fridge Operation:

- During installation, ensure that the angle of the fridge when tilted does not exceed 30°.
- If the refrigerator has been turned upside down or transported beyond this angle, it is advisable to place the fridge in a horizontal position for 24 hours before starting up the fridge.

(The compressor operates in a lubricating oil which may find its way into the filter drier and cause a blockage in the pipes, if the fridge was tilted beyond a 30° angle or inverted).

Introduction

Thank you for purchasing a National Luna front opening Drawer Fridge.

This product is part of a high-efficiency, high-quality Drawer Fridge range which is designed specifically for drawer systems and low-clearance installs in the back of SUV's, off road vehicles and canopy setups.

All models can be powered directly from a 12V or 24V battery.

Standard features include: Compact display, digital thermostat, low voltage protection, battery protection cut-out and a set of inner bin dividers.

Models covered in this manual:

- NL16 Drawer Fridge: 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 24, 25, 26, 27
- NL30 Drawer Fridge: 5, 6, 8, 9, 10, 11, 12, 13, 14, 18, 19, 20, 24, 25, 26, 27
- NL60 Drawer Fridge: 5, 7, 8, 9, 10, 11, 12, 13, 14, 21, 22, 23, 24, 25, 26, 27

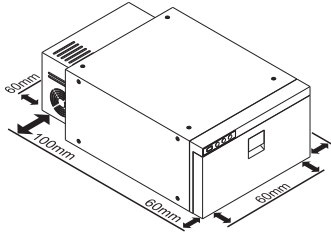
Symbols and terms used in this document

Some symbols are used in this manual or on the product. These symbols have the following meanings.

	Electrical hazard. Risk of electric shock.
	Flammable. Risk of fire
	Important note. Please read carefully
	Tip or useful information
AC	Alternating Current electrical supply.
DC	Direct Current electrical supply.

Ventilation clearance

Slotted openings at the top (NL16 & 30) and sides of the compressor cover are provided for ventilation; to ensure reliable operation and to protect against overheating. These openings should never be blocked or covered.



A minimum clearance of 60mm is recommended on the front, back and sides of the fridge for ventilation. A minimum clearance of 100mm is recommended around the compressor area.

This product should never be placed in a built-in installation with limited airflow unless adequate ventilation is provided.

Closed compartments should be provided with cool air intake and warm air exhausts.

Guide to electrical wiring

This appliance is optimised for mobile use. Standard 12V accessory sockets used in many motor vehicles can be used but may result in unreliable operation due to thin wiring and result in high voltage loss.

For long-term reliable operation in a motor vehicle or other mobile applications, it is recommended to install dedicated 4mm² (12AWG) wiring between the accessory socket and the power source (battery).

In cases where the distance is above 4 meters, one should use a 6mm² (10AWG) cable. For safety, a 15A fuse should be installed close to the battery on the positive cable.

Protect all cables from potential damage, particularly in applications where the fridge or cables are likely to move, such as in sliding or drawer systems. Protect the cables from sharp edges and areas that may be exposed to high heat.



DO NOT use a modified or damaged power cable. Doing so may result in serious injury or damage to the appliance.

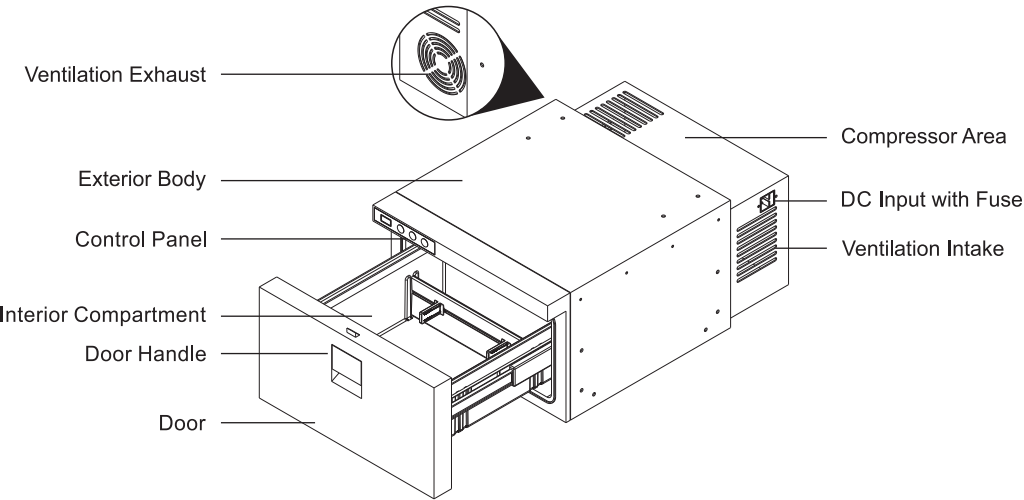


If dedicated wiring is installed to supply the fridge, a 15A fuse should be fitted on the positive cable near to the battery.

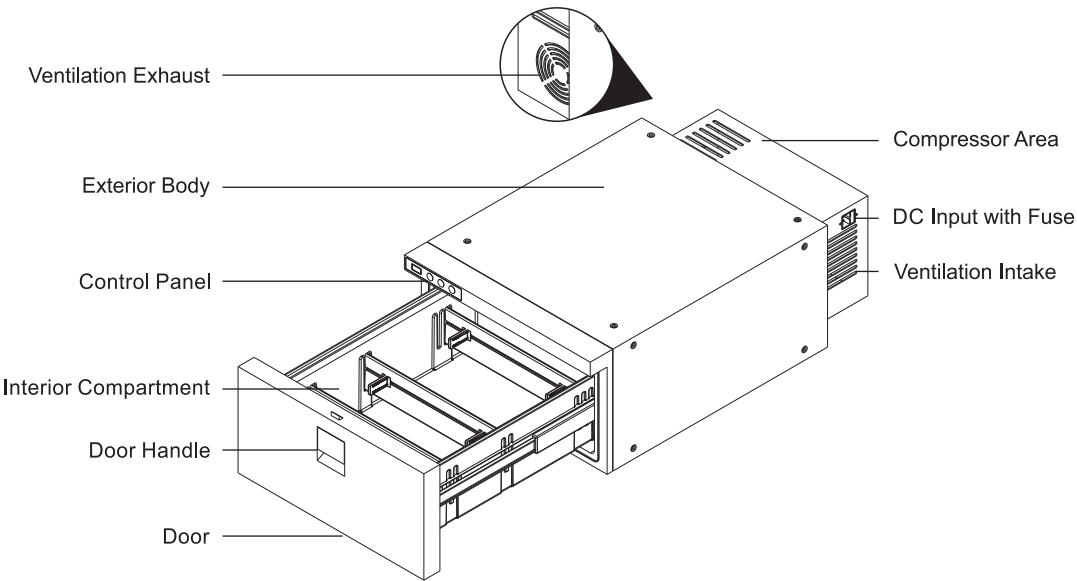


Before installation of any additional wiring, check that this action will not void any vehicle warranty or service agreement.

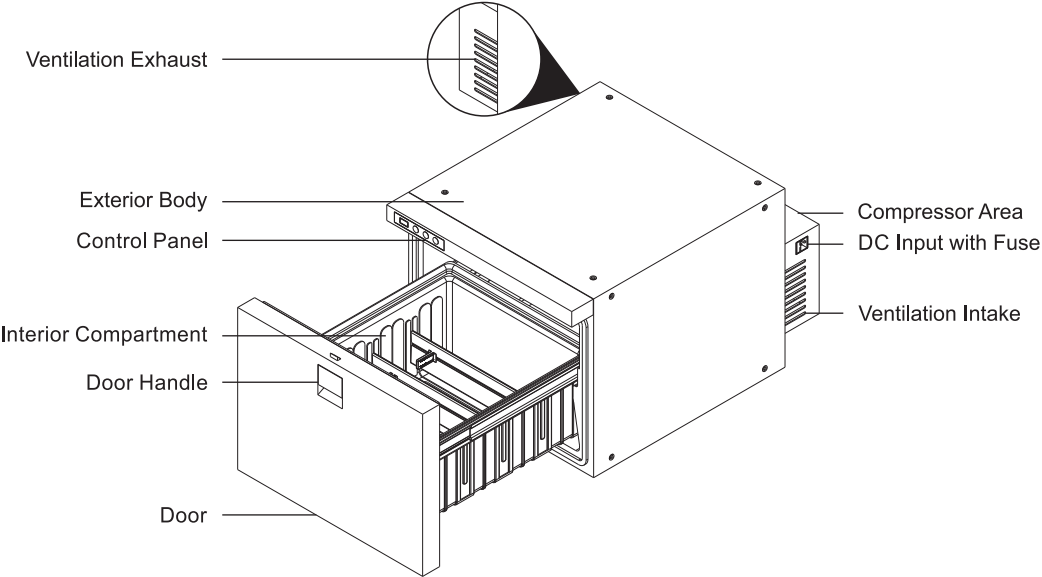
External features - NL16 Drawer Fridge



External features - NL30 Drawer Fridge



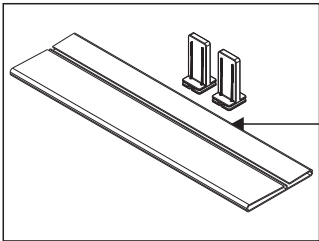
External features - NL60 Drawer Fridge



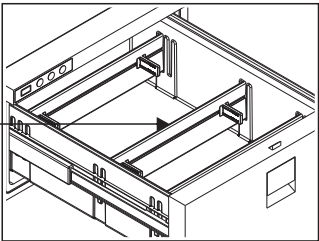
Internal features - Removable interior compartment dividers

This product features removable dividers inside the interior compartment for compartmentalised storage. Each model has different compartment sizes and number of dividers available.

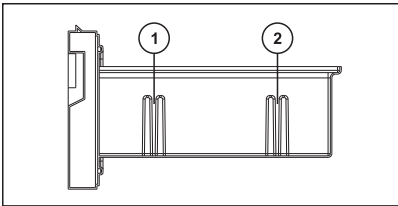
Using the moulded groove features inside the drawer compartment, these dividers are easy to remove and fit into the various available positions.



Removable
Divider



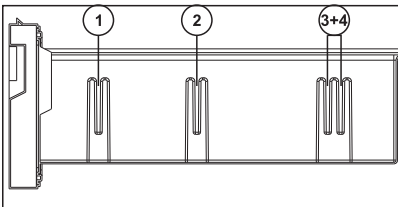
NL16 Drawer Fridge



The NL16 Drawer Fridge's interior compartment has two moulded grooves on both sides of the drawer interior.

These features extend to the bottom of the drawer interior, completely compartmentalising each section when a divider is fitted. This model is supplied with two dividers.

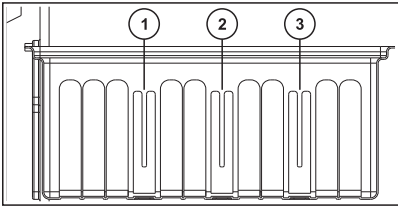
NL30 Drawer Fridge



The NL30 Drawer Fridge's interior compartment has four moulded grooves on both sides of the drawer interior. These features don't extend to the bottom of the drawer, resulting in a small gap beneath the dividers when they are fitted.

Although there are four grooves, this model is supplied with only three dividers. The third and fourth groove features are spaced closely together, allowing either position to be used in conjunction with the other two dividers.

NL60 Drawer Fridge



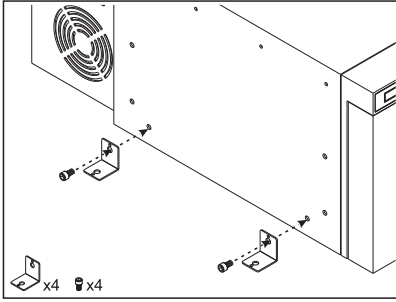
The NL60 Drawer Fridge's interior compartment has three moulded grooves on both sides of the drawer interior.

Similarly to the NL30, these features are spaced away from the bottom of the drawer interior, which will cause a small gap beneath the dividers when they are fitted. This model is supplied with three dividers as well.

Securing fridge during a mobile application

These fridges can be secured to the inside of a vehicle interior or drawer systems during transport, by using either the supplied mounting kit or securing the fridge to a surface using the built-in threaded inserts.

Mounting kit - L-Brackets and fasteners



These fridges are provided with 4 x L-shaped brackets and 4 x M6 Allen Cap screws.

To secure the fridge during transport, simply align the bracket with the corresponding holes on the side of the fridge exterior.

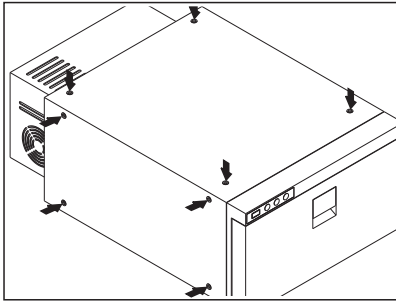
Secure the bracket to the body, by fastening the M6 screws into the threaded inserts.

On the NL16 Drawer Fridge specifically, the two threaded inserts closest to the bottom edge of the fridge should be used with the mounting kit. On the NL30 and NL60, the bottom two mounting holes on the sides of the fridge are applicable to use for the mounting kit brackets.



When using the included mounting kit, the fridge's overall width will be increased by 30mm either side. Please ensure enough clearance is provided during an installation.

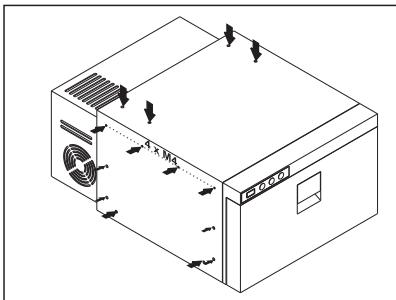
Mounting features - Built-in threaded inserts



This product range has various built-in threaded inserts along the sides and on the top of the fridge.

To secure the fridge during transport, take note of the mounting hole positions on page 16, 19 and 22 when planning an installation, in order to include corresponding holes to be able to fasten the fridge onto a flat surface or into a drawer system.

Both the NL30 and NL60 Drawer Fridges have 4 x M6 threaded inserts available on the top and the sides of the fridge.



The NL16 Drawer Fridge has two thread sizes available for this type of installation.

On the top, 4 x M6 threads are available to secure anything onto the top of the fridge.

On the sides, there are 4 x M4 holes along the top edge, while there are 6 x M6 threads available on the remaining edges (2 near the front and back of the side panel as well as two near the bottom edge of the fridge).

Connecting power for 12V / 24Vdc and 240Vac operation (optional accessory)

This fridge can be powered directly from a 12V or 24V battery. Additionally, an external AC power supply is available as an optional accessory.

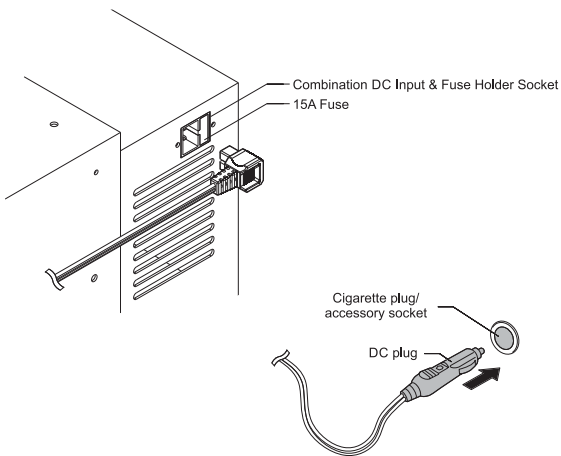
Connecting power - 12/24Vdc operation

These fridges are fitted with a combination DC input and fuse holder socket, on the right-hand side of the compressor cover at the rear of the fridge.

For battery-powered applications, connect the supplied 1.5mm² (16AWG) DC cable (or approved replacement) into the DC input socket and ensure it is properly inserted.

Connect the other end to a 12V / 24Vdc power source.

If connecting to an existing cigarette plug, ensure that the power / voltage supply is sufficient. Additionally, when the DC supply is connected, ensure that when the ignition is turned off, that the power is disconnected as well.



Connect to a lighter plug that has been connected to the ignition, as direct connection to the main battery may deplete the main battery. As a result the vehicle won't start.



When connecting directly to the battery, it is recommended to set the fridge's Battery Protection setting to high.

Using a lower Battery Protection setting may result in permanent damage to the battery.



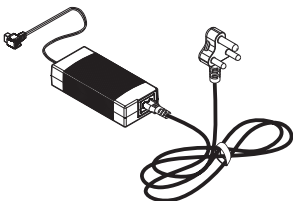
Ensure polarity is correct before connecting the DC supply. Incorrect polarity may result in permanent damage.

Connecting power - 240Vac operation (optional accessory)

An external AC power supply is available as an optional accessory, which allows the Drawer Fridge to operate from a 100 - 240Vac input.

For AC power sources, connect the supplied AC cable to the input socket and ensure it is properly fitted.

Connect the other end to the AC supply.



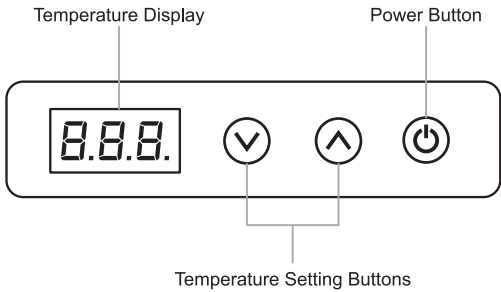
Please note:

- When connecting the external AC power supply, make sure that the cable plug is appropriate for the region or country of use and that the cable is not damaged.
- Verify that the external AC power supply's voltage is within the fridge's operating voltage range.
- Do not place AC plug adaptors or power supplies on or behind the fridge.

Display and button layout

This product range's control panel features a single temperature display with three main operating buttons. This control panel further allows you to set your preferred battery protection level (L, M, H) and switch between two temperature display modes (°C/°F).

User interface



Powering on the fridge

When the fridge is connected to a power source , press the “⏻” button to power the fridge on or off.



When there is a power interruption, the fridge will automatically revert to its previous power state.

If the fridge's display was switched off prior to being disconnected, when the fridge is re-connected to a power source, the display will flash “888” once and remain off until the display is manually powered on.

Adjusting the temperature

While the fridge is powered on, press “⬆️” to increase and “⬆️” to decrease the fridge's temperature. The temperature range that these fridges can be set to, is between -10°C (lowest) to +10°C (highest).

Note: *The lower the temperature setting, the more power is consumed.*



Note: To fast scroll through the temperature range, hold down “⬆️” or “⬆️” respectively.



Adjusting battery protection setting

Battery protection is used to prevent excessive discharge and potential damage to a source battery. The choice of setting will depend on the specific application.

HIGH is recommended when powering the fridge direct from a vehicle main battery. This provides the highest protection level.

MED is recommended for most applications where a deep-cycle auxiliary battery is used to power the fridge.

LOW can be used to prioritize fridge run-time over battery discharge.

Battery Protection Levels						
Protection Level Power Source	HIGH		MED (Factory Default)		LOW	
Display	---		---		---	
	Start-Up	Cut-Off	Start-Up	Cut-Off	Start-Up	Cut-Off
12V	12.8V	11.8V	12.1V	11.1V	10.6V	9.6V
24V	25.7V	24.3V	23.7V	22.3V	22.7V	21.3V

In order to select one of the Battery Protection levels, the fridge needs to be connected to a power source, but have the display powered off (stand-by mode). Press the “⏻” button to power off the fridge’s display.



Once the display is powered off, hold “⏮” and “⏭” down simultaneously for 3 seconds.



The display will reflect the current Battery Protection level.



Adjusting battery protection setting - continued

Press "⬆" to increase the battery protection mode from Low to Medium or High

Low battery protection setting



Medium battery protection setting



Press "⬆" to lower the battery protection mode from High to Medium or Low.

High battery protection setting



After the preferred battery protection level has been selected, allow a 5 second delay in order for the new setting to be saved.

Switching between Celsius (°C) and Fahrenheit (°F) display

In order to switch between the temperature display modes, the fridge needs to be connected to a power source, but have the display powered off (stand-by mode). Press the “⏻” button to power off the fridge’s display.



Once the display is powered off, hold “⏻” and “⬆” down simultaneously for 3 seconds.



The display will reflect the current Battery Protection level.



Press the “⏻” button to cycle to the Temperature Display settings. The display will reflect “C” or “F”, depending on your current temperature display mode.



Press the “⬆” button to switch to °C and the “⬇” button to switch to °F.

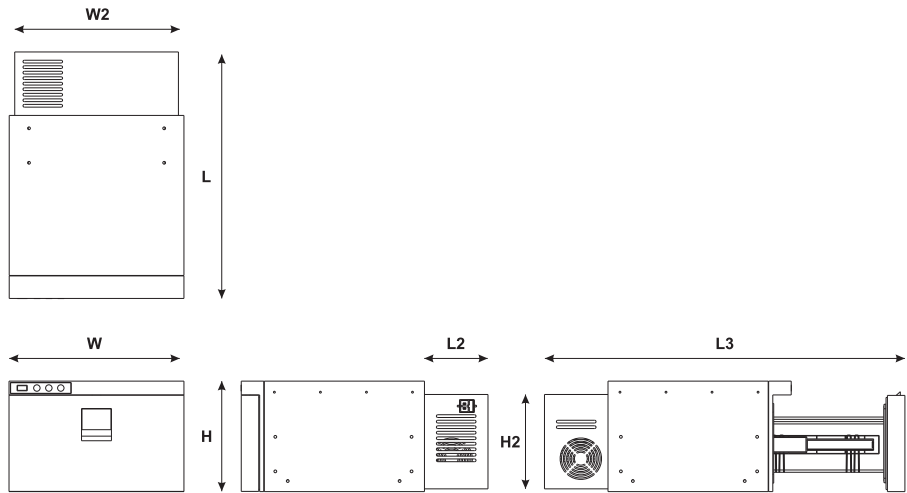


After the preferred temperature display mode has been selected, allow a 5 second delay in order for the new setting to be saved.

Specifications - NL16

Fridge:	
Capacity	16L
Weight	13.90 Kg
Temperature range	-10°C to +10°C (14°F to 50°F)
DC power supply:	
DC supply voltage	12V / 24V
DC input fuse	15A
Rated power	45W
Rated current	3.8A / 1.9A
External AC power supply:	
AC supply voltage	100-240V 50/60Hz
Other:	
Refrigerant type	R134a
Insulation	C-Pentane
Operating environment	32°C (90°F)

Product dimensions



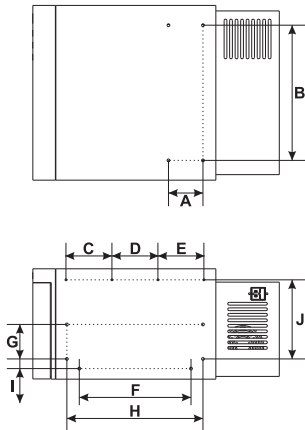
Length (L) in mm	Width (W) in mm	Height (H) in mm	Length (L2) in mm	Width (W2) in mm	Height (H2) in mm	Open Length (L3) in mm
540	380	240	140	358	212	786

* While every effort is made to ensure documentation is correct, specifications may change without prior notice.



This fridge is available with removable rubber feet. If this feature is fitted, please ensure that the 10mm height is taken into account when planning an installation. The maximum height of this fridge including this feature is 250mm.

Mounting positions



Top mounting points

A	B
75	296

Side mounting points

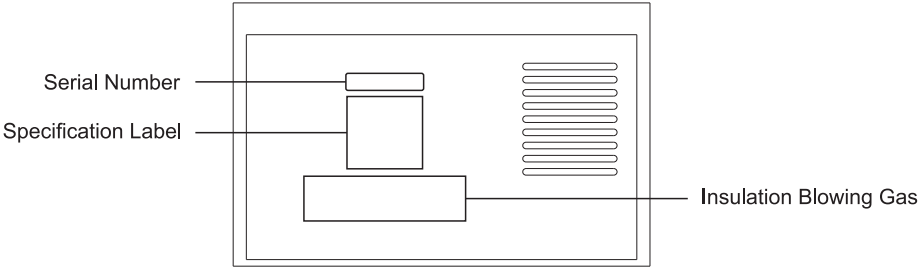
C, D, E	F
100	243
G	H
75	296
I	J
21	172

* While every effort is made to ensure documentation is correct, specifications may change without prior notice.

Serial number and Specification label

A specification label, unique serial number and insulation blowing gas sticker is located on the back panel of the compressor cover.

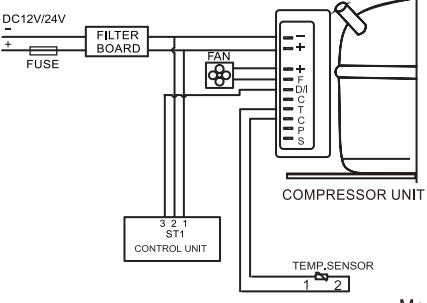
Take note of the serial number when contacting technical support or making a warranty claim. Do not remove the serial number sticker.



The specification label will indicate the fridge's operating voltages and current rating. Before connecting your fridge to a power source, make sure the voltage is within the indicated voltage range.



Model	NL16 Drawer Fridge	
Compartment type	Refrigerator	
Climatic Class	SN/N/ST/T	
Appliance Class		
Rated Voltage DC	12V/24V	
Rated Current DC	3.8A / 1.9A	
Refrigerant Type	R134a (22g)	
Insulation Blowing Gas	C-Pentane	



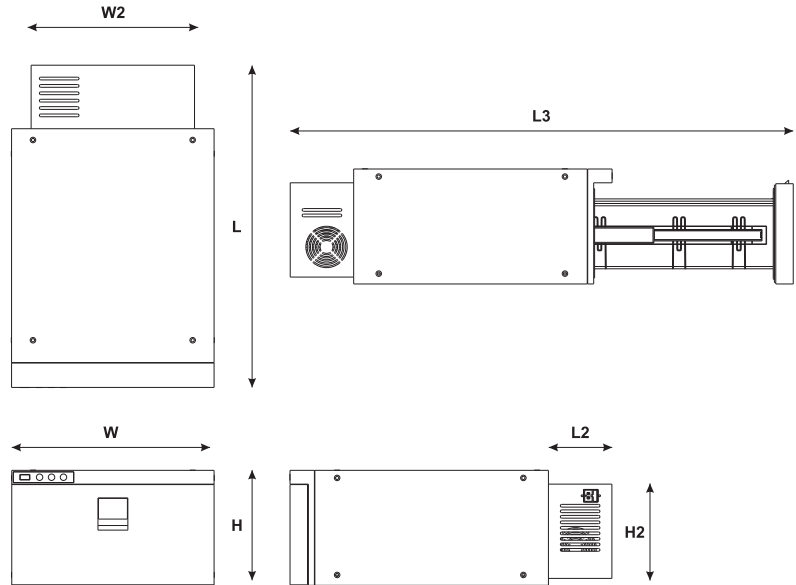
DC12V/24V
FUSE
FILTER BOARD
FAN
CONTROL UNIT
COMPRESSOR UNIT
TEMP. SENSOR

SN. www.nationalluna.com Made in China

Specifications - NL30

Fridge:	
Capacity	30L
Weight	17.30 Kg
Temperature range	-10°C to +10°C (14°F to 50°F)
DC power supply:	
DC supply voltage	12V / 24V
DC input fuse	15A
Rated power	45W
Rated current	3.8A / 1.9A
External AC power supply:	
AC supply voltage	100-240V 50/60Hz
Other:	
Refrigerant type	R134a
Insulation	C-Pentane
Operating environment	32°C (90°F)

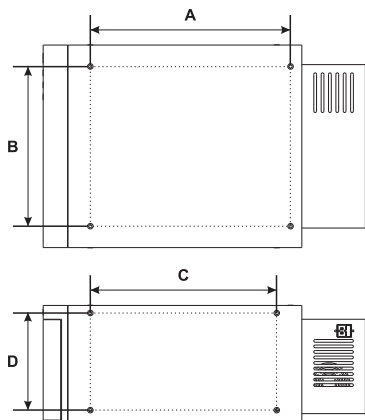
Product dimensions



Length (L) in mm	Width (W) in mm	Height (H) in mm	Length (L2) in mm	Width (W2) in mm	Height (H2) in mm	Open Length (L3) in mm
704	440	250	140	355	220	1100

* While every effort is made to ensure documentation is correct, specifications may change without prior notice.

Mounting positions



Top mounting points

A	B
435	342

Side mounting points

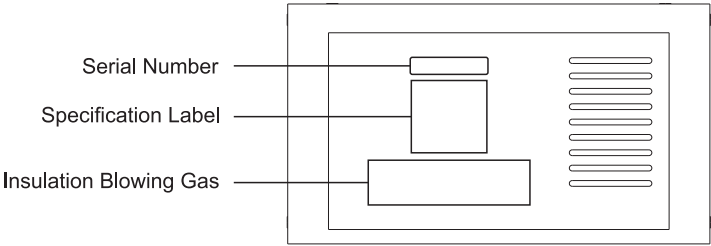
C	D
405	212

* While every effort is made to ensure documentation is correct, specifications may change without prior notice.

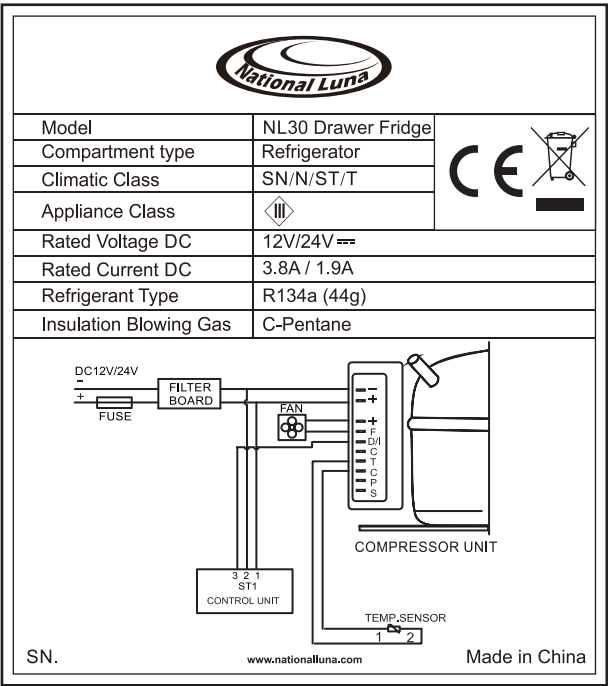
Serial number and Specification label

A specification label, unique serial number and insulation blowing gas sticker is located on the back panel of the compressor cover.

Take note of the serial number when contacting technical support or making a warranty claim. Do not remove the serial number sticker.



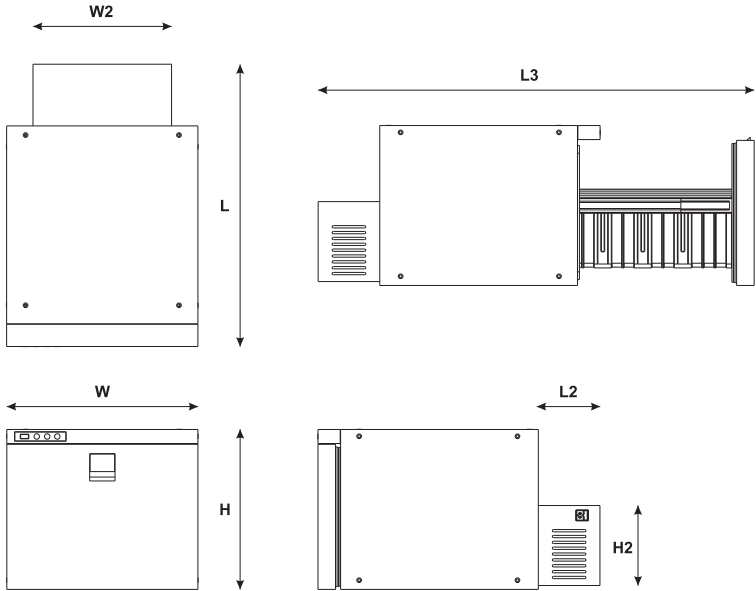
The specification label will indicate the fridge's operating voltages and current rating. Before connecting your fridge to a power source, make sure the voltage is within the indicated voltage range.



Specifications - NL60

Fridge:	
Capacity	60L
Weight	23.50 Kg
Temperature range	-10°C to +10°C (14°F to 50°F)
DC power supply:	
DC supply voltage	12V / 24V
DC input fuse	15A
Rated power	50W
Rated current	5.0A / 2.5A
External AC power supply:	
AC supply voltage	100-240V 50/60Hz
Other:	
Refrigerant type	R134a
Insulation	C-Pentane
Operating environment	32°C (90°F)

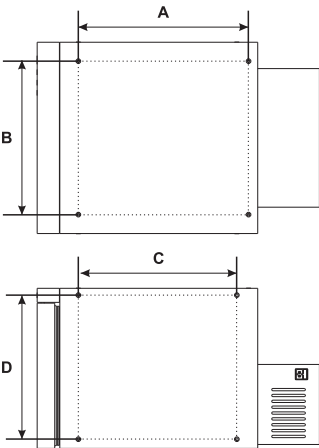
Product dimensions



Length (L) in mm	Width (W) in mm	Height (H) in mm	Length (L2) in mm	Width (W2) in mm	Height (H2) in mm	Open Length (L3) in mm
725	490	410	160	355	214	1124

* While every effort is made to ensure documentation is correct, specifications may change without prior notice.

Mounting positions



Top mounting points

A	B
435	392

Side mounting points

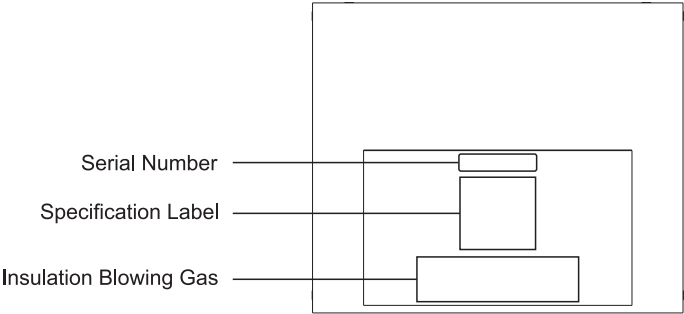
C	D
406	370

* While every effort is made to ensure documentation is correct, specifications may change without prior notice.

Serial number and Specification label

A unique serial number, specification label and insulation blowing gas sticker is located on the back panel of the compressor cover.

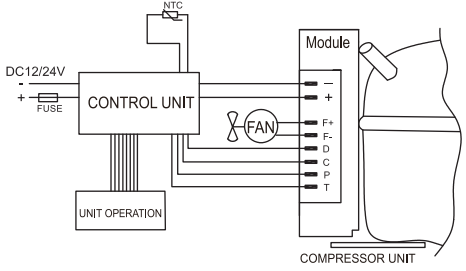
Take note of the serial number when contacting technical support or making a warranty claim. Do not remove the serial number sticker.



The specification label will indicate the fridge's operating voltages and current rating. Before connecting your fridge to a power source, make sure the voltage is within the indicated voltage range.



Model	NL60 Drawer Fridge	 
Compartment type	Refrigerator	
Climatic Class	SN/N/ST/T	
Appliance Class		
Rated Voltage DC	12V/24V	
Rated Current DC	5.0A / 2.5A	
Refrigerant Type	R134a (25g)	
Insulation Blowing Gas	C-Pentane	



The diagram shows a DC12/24V power source with a fuse connected to a CONTROL UNIT. The CONTROL UNIT is connected to an NTC sensor, a FAN, and a COMPRESSOR UNIT. The COMPRESSOR UNIT has a terminal block with labels: -, +, F+, F-, D, C, P, T. A UNIT OPERATION box is also connected to the CONTROL UNIT.

SN.

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Made in China

Defrosting

It is normal for ice to accumulate on the cooling surfaces of a freezer. This will be more significant in humid environments. Increased ice build-up will reduce cooling performance and should be removed periodically.

Useful tips:

- Before defrosting, remove any contents from the drawer compartment.
- Disconnect all power cables from the fridge and open the drawer.
- Allow any ice to defrost and melt by itself (Do not use sharp objects to scrape ice from the cooling surfaces).
- Use a soft cloth to remove melting ice and water.
- It is best to dry the interior before turning on the fridge.

Care and cleaning

Exterior:

- Use a soft cloth with mild detergent if necessary to clean the exterior of your fridge.
- Make sure surfaces are dry before storage (leaving the drawer slightly opened to ventilate).
- When storing the fridge, ensure the power is disconnected.

Interior:

The interior should be cleaned regularly to prevent bacteria and odours from forming.

- Use a soft cloth with mild detergent or anti-bacterial soap, do not use abrasive or strong chemicals.
- Do not use ammonia-based cleaning agents or strong acids.

The ventilation intake on the rear of the fridge may accumulate dust or debris over time. Check the vents regularly and blow out any dust or remove any loose debris.



A blocked air intake can result in poor cooling performance and increased power consumption.

Storage when not in use

When your fridge is not in use, it is best to clean the interior and exterior prior to storage.

It is recommended to:

- Turn off the fridge and remove any power cables.
- Keep the drawer slightly open to allow air to circulate inside the fridge (This will help keep the interior dry and prevent odours).

Recommended temperature settings

Fruits, vegetables, dairy products, unfrozen meats.	3°C to 6°C	37°F to 43°F
Cold beverages	0°C to 5°C	32°F to 41°F
Short-term frozen meats	-6°C to -10°C	21°F to 14°F
Frozen meats & fish	-10°C to -12°C	14°F to 10°F



Setting temperatures below the above recommendations will consume more power, resulting in the fridge running continuously at high ambient temperatures.

Optimising efficiency

Follow these simple tips to reduce your fridge's energy consumption:

- Keep your fridge in a cool, well ventilated area.
- Set the internal temperatures appropriate for the contents.
- Avoid opening the drawer more than necessary.
- Load pre-frozen foods into the interior compartment.

Fault diagnostics

There are several parameters being monitored by the fridge during operation. If a fault is detected, it will be identified by an error code on the display. The error code will indicate which fault has been detected.

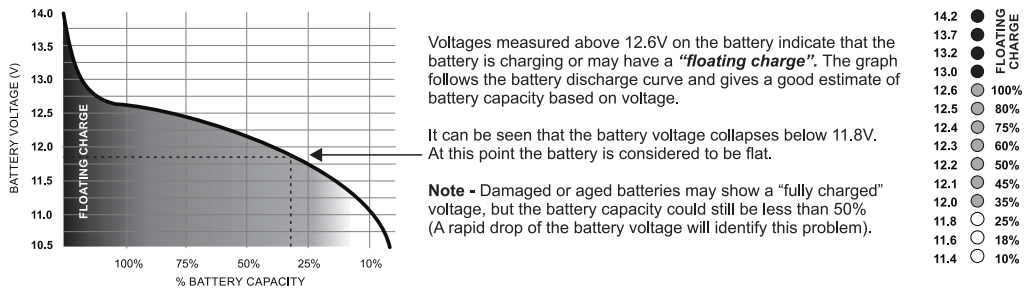
Code	Description	Action
E1	Battery voltage is low.	Check battery voltage and adjust the Battery Protection settings as required (see detailed explanation on page 26, the fault table for further clarity on Lead-Acid Batteries).
E2	Fan failure.	Unplug and restart the fridge after 5 minutes. If the error persists, refer the fridge for service.
E3	Compressor start-up error.	
E4	Compressor's running speed fails to reach the requirements.	Check and confirm whether the power supply voltage is stable. If the error persists, refer the fridge for service.
E5	The compressor driver electronics have overheated.	Please check and ensure that the air vents are not blocked and the fan is operational. If the error still persists, refer the fridge for service.
E6	Temperature Probe NTC failure.	The temperature sensor might need to be replaced. Refer the fridge for service.

Fault diagnostics - continued

The Battery Protection mode may be triggered prematurely on certain vehicles due to thin wiring imperfections, which contribute to a measured DC voltage drop at the compressor on start-up. By lowering the Battery Protection setting, it may resolve this issue. See page 12 for the Battery Protection guide.

Next, check the Battery Voltage reading at the battery terminals to ensure that the battery is not depleted or discharged too severely. The following graph gives an indication of a typical motor vehicle Lead-Acid battery discharge curve.

Typical voltage-capacity relationship of a lead-acid battery at 25°C



Battery technology is constantly improving. It is advisable to research the manufacturer’s battery specifications to see if it is suitable for your application, before purchasing a battery.

Technical data contained in this manual:

Due to ongoing product development and design, some drawings within this manual may differ from the actual product. National Luna reserves the right to change any information contained in this document without prior notice. National Luna will not be held responsible for errors or omissions in this document.



At the end of this product’s life, do not dispose with normal household waste. This appliance should be disposed of responsibly by delivering to an appropriate recycling or waste-disposal facility.

Key Information:

Make a note of key information relating to your refrigerator below and keep the booklet in a safe place.

Supplier’s Name: _____

Date Purchased: _____

Invoice Number: _____

Model Name: _____

Serial Number: _____

Warranty and Service Information



South Africa

This warranty is only valid within the borders of South Africa.
Refer to International section for warranty information outside of South Africa.

National Luna Limited 3-Year Warranty

National Luna provides a warranty to the original purchaser, that any genuine National Luna product purchased from an authorised reseller will be free from defects in materials and workmanship for a special length of time from the date of purchase. The warranty period will vary by specific product, as identified in your user documentation or on the product package.

This warranty applies to the original purchaser and is not transferable, except where required by applicable law.

In general, this warranty means your National Luna product will operate in accordance with the product manual, specified voltage range and environmental conditions as outlined in the official documentation.

This warranty supercedes all other advertised warranties for this product. No National Luna dealer or other agent is authorised to make any modification, extension or addition to this warranty.

National Luna shall, at its sole discretion, repair or replace and product, provided it is returned to the original place of purchase, or another place as directed by National Luna, with the original sales receipt (or valid copy thereof).

Warranty returns to the factory for repairs - in the event where the unit has been shipped to the factory for repairs, transport costs will be for the owners account.

National Luna shall not be responsible for any damage or loss that occurs during shipping or transport to a service centre or repair facility.

National Luna may consider a warranty void if modifications have been made to the product that may affect proper operation.

National Luna shall not be responsible for damage to the product is service or maintenance is undertake by non-authorised persons.

National Luna will not be responsible for damage or injury as a result of connecting the product to an unsupported power source or voltage outside of the product operating specifications.

National Luna shall not be responsible for damage or injury resulting from negligent use, storage of hazardous chemicals, use of corrosive substances, fire, flood, civil disturbances, lighting or any other natural phenomenon.

National Luna shall not be responsible for any consequential loss or damage caused by, or due to the malfunction of this product.

National Luna reserved the right to refuse warranty if the original proof of purchase (or valid copy thereof) cannot be produced.

If this product is installed in a motor vehicle, it may require connection to the vehicle electrical system, it is the owners' responsibility to determine if the installation of the product will affect the safe operation of the vehicle or the vehicle warranty. National Luna shall not be responsible if such warranty is rendered void by the motor manufacturer.

Incorrect installation, including improper wiring, inadequate ventilation or failure to follow installation guidelines, may void the warranty.

Should a product be replaced under warranty, the replacement will carry the balance of the warranty from the original product, unless otherwise stated.

Any products that are not collected within 3-months following service or repair may be sold defray expenses.

Exclusions

This warranty does not cover problems or damage resulting from, but not limited to, any of the following:

1. Wear and tear associated with normal use.
2. Fuses, bulbs, fans or other consumable parts.
3. Any modification, abuse, accident, disassembly, misapplication or un-authorised repair.
4. Removal of any manufacturer labels or stickers.
5. Any improper operation, including any use not in accordance with supplied product instructions.
6. Connection to any improper voltage supply as outlined on the product or in the product documentation.
7. Any other cause which does not relate to a product defect in materials or workmanship.
8. Any 3rd party products included with the returned product (i.e plugs, chargers, cables, batteries)
9. Where service is performed by an authorised service agent, any costs relating to labour are excluded from this warranty.
10. Damage caused by power surge, incorrect voltage supply, improper battery systems or water ingress not consistent with the product's IP rating.
11. These fridges are designed for recreational use. The warranty may be voided when the fridge is used in a commercial application where the product is exposed to abnormal / excessive use.

Also excluded from this warranty are counterfeit products. These would be products that National Luna, at its sole discretion, determine were not manufactured by National Luna or any of its authorised manufacturing partners.

Service out of warranty

National Luna provides service and repair to product that are no longer covered by a valid warranty.

Such service or repair may incur costs for assessment or testing in addition to any parts and labour required to perform the repair.

Any service or repair will carry a minimum of 6-month warranty on parts from the date of service unless stated otherwise.

National Luna will continue support for obsolete products for as long as possible but availability of parts for obsolete products cannot be guaranteed and the product may be deemed uneconomical to repair.

How to make a warranty claim

Before submitting a warranty claim, we suggest you contact our technical support or visit www.nationalluna.com and review the support section for technical assistance. You may also submit a request for technical support from the contact form or send an email to the address listed. Please provide the model number and serial number of the product when contacting technical support, making a claim or returning a product for service.

Generally, valid warranty claims should be processed through your original point of purchase.

Please verify the returns policy with the retailer where you purchased your product as additional charges or restrictions may apply. Any warranty claim that cannot be processed through your original point of purchase should be addressed directly to National Luna.

Any products returned to National Luna or authorised service agents should be approximately protected and packaged with your personal details included.

National Luna reserves the right to perform testing on any returned product to validate a warranty claim.

Assessment fees may apply to products returned for testing, including those that are found to not be defective.

International - (regions outside of South Africa)

National Luna products are distributed worldwide through a distribution network. Authorised importers in a particular country will carry the product service and warranty and may have additional terms and conditions in-line with their conditions of sale.

If National Luna products are sold or imported into a country by persons other than authorised National Luna distributors, no local warranty applies. Products are then required to be returned to National Luna in South Africa where the standard terms of warranty will then apply. The cost of freight, duties, taxes or other costs are for the customer's account.

The warranty is valid in the country of purchase - National Luna products that are exported by private individuals shall not carry a warranty in the destination country even if that country has an existing authorised service agent.

National Luna South Africa
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Warranty terms and conditions may change periodically.
Please check **www.nationalluna.com/warranty** for the most recent warranty terms.
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