

Lec⁺

PE 507

PG 507



Operating Instructions
refrigerators

GB/IE

The refrigerator was developed taking the different storage requirements of Pharmacy products into consideration. Some must be stored cold - others require a little higher temperature. A few must be stored separately. To ensure that you get the best out of your new refrigerator, it is important that you become familiar with the refrigerator functions and know how to use the accessories. Please read the instructions for use carefully before setting up and using your refrigerator.

As these instructions apply to several refrigerator models, the equipment may vary from model to model.

Before using the refrigerator

On receipt, check to ensure that the refrigerator has not become damaged during transportation. Any transport damage should be reported to our Customer Services department immediately.

Before filling the refrigerator with contents / products, the refrigerator interior should be cleaned with lukewarm water containing a mild detergent. Use a soft cloth. If the refrigerator has been stored in cold surroundings (colder than +5°C), it must be allowed to stabilise for at least 2 hours before being switched on.

The refrigerator you have bought represents a **new** line of our products. It is characterized by modern functional solutions, soft lines and subtle design.

Please, read the following description. It will let you fully appreciate the advantages of the **new** line of our refrigerators and see for yourself that it is a **good buy**.

The following innovative technological solutions constitute the highest quality of our products:

- fully **environment-friendly** appliance -the coolant, the construction materials as well as our production technology do not yield any pollutants,
- **sturdy door** will hold a load of products arranged on capacious door shelves,
- **solid insulation** of our refrigerators ensures high efficiency and low energy consumption,
- **self-defrosting** fridge compartment limits cleaning to a periodical wash of the compartment,
- **ergonomic door handles**, big and modern-shaped, with no sharp edges, make opening the door easy,
- **optimally situated lighting** ensures perfect illumination of the whole compartment and prevents from dazzling the user.

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Warning

Changes in internal and external appearance of a product, not affecting its functionality and safety, (e.g. shape of a door handle) are acceptable.

Disposing of the device



When disposing of the device, do not take it to regular municipal waste containers. Instead, take it to electrical and electronic waste recycling and reuse center. A relevant label has been put on the device, its instructions manual, or on the package.

The device has been manufactured of recyclable materials. By bringing old device to recycling collection center, you show that you care about nature.

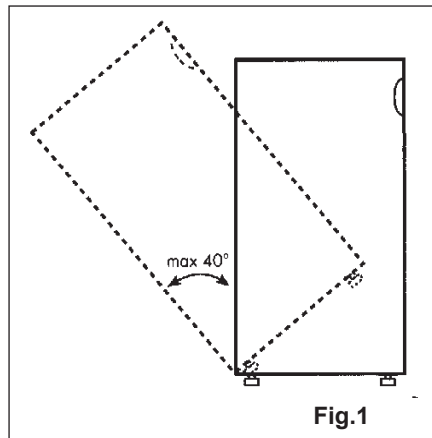
Ask your local environmental care authority for information on location of such facilities.

Safety Measures

The producer is not responsible for any damage resultant from violating the principles in the manual. Thus, read carefully the information on safety measures, operation, and maintenance of the refrigerator.

● Please keep the Manual for future use or for handing it over to the next user. Before you turn the refrigerator on.

- When placing, moving or lifting the refrigerator, do not hold the door handle, do not pull the condenser at the back of the refrigerator, and do not touch the compressor unit.
- Do not use it in cellars, vestibules, or in summerhouses not heated in autumn and winter.
- After placing the refrigerator, wait two hours before you turn it on, for it could have been excessively tilted in transport.
- Make sure children do not use the appliance unattended. Do not allow children to play with the appliance. Children are not allowed to swing on the doors.
- Crackling sounds that may be heard are caused by expanding and shrinking of parts caused by temperature changes.
- Before any maintenance activity, pull the plug out, do not pull the cord but hold the plug firmly
- Do not use double-wire extension cords; if an extension cord is necessary, make sure it is a cord with protection safety certificate.
- If the main power supply cord is damaged, it should be replaced by a serviceman.
- Because of safety reasons, do not repair the appliance by yourself. Repairs carried out by persons without proper qualifications can cause serious risk of injury for the user.
- Defrosted products, even only partially, should not be frozen again.
- If the appliance is not to be used any more, make it completely safe prior to scrapping by cutting the cord.
- Keep the packaging material (bags, Styrofoam pieces, etc.) out of reach of children.
- **Should the refrigerating unit be damaged, air the room for a few minutes (the room should have at least 4 cubic meters).**
- The refrigerating agent can cause eye injury.
- The refrigerator should not be transported, moved, or placed in horizontal position and tilted more than 40°. Should such a situation occur, after placing the appliance in the right position wait at least 2 hours before turning it on.

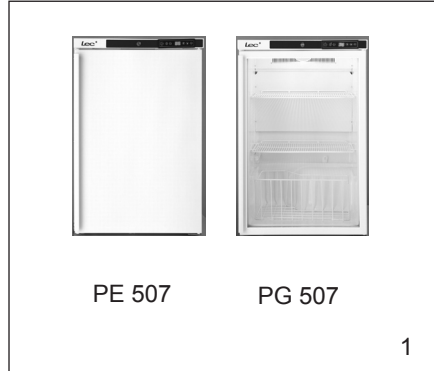


Product Characteristics

The refrigerator is designed for Pharmacy use. The refrigerator chamber should not be used for storage of foodstuffs.

The refrigerators are designed for operation in the ambient temperature from +16°C to +32°C.

The elements of the cooling system in the appliance are located behind the back wall of the chamber in order to maximize the capacity of the chamber, facilitate keeping the chamber clean and increase durability of the product (protecting from potential damage).



Accessories

Wire shelf
wire storage container

PE 507, PG 507

2 pieces
1 piece

Technical parameters:

Height	865 mm
Width	558 mm
Depth	600 mm
Net capacity:	137 l
Weight	34 kg
Power supply	230 V ~50 Hz
Rated current	0,30A
Defrosting	automatic

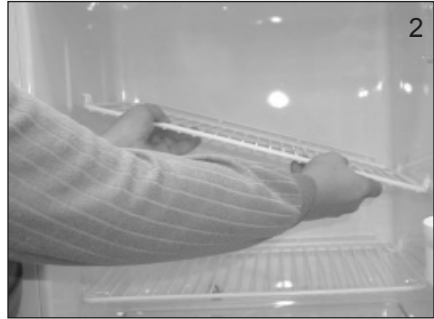
PE 507, PG 507

Please find on the product nameplate the interval of ambient temperature for which this product is designed to have the best performances

Class	Symbol	Ambient Temperature Range °C
Extended Temperate	SN	+ 10°C to + 32°C
Temperate	N	+ 16°C to + 32°C
Subtropical	ST	+18°C to + 38°C

Installation and removal of shelves:

- In order to remove a shelf hold the right side of the shelf, lift the left side with your left hand about 45° and remove the shelf (Photo 2).
- Start taking out the shelf for cleaning with the top one, start putting them back in with the bottom one.
- Shelves are installed as follows:
 - put the shelf in at an angle about 45° (just like taking it out)
 - align the projections with the grooves located at the sides of the refrigerator chamber.



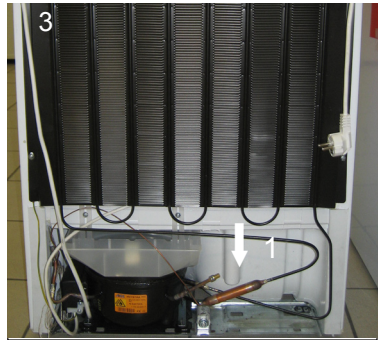
Before You Start

Placement of the product

- Unpack the product; remove the tape securing the door and the accessories. Remove the remains of the glue, if any, with delicate cleaning detergent.
 - Do not throw the Styrofoam element of the packaging away. Should you have to transport the product again, secure the refrigerator with the Styrofoam elements, the plastic foil, and Scotch tape.
 - Wash the inside of the refrigerator chamber and the accessories with lukewarm water with some dishwasher liquid and then wipe it and dry.
 - Place the refrigerator in a dry, ventilated place, out of sun, far from heat sources such as central heating radiators, etc.
 - at least 30 cm from oil or coal-fired stoves.
 - If you place the refrigerator next to another refrigerating or freezing unit, the lateral distance between the appliances should be at least 2 cm.
 - Make sure the product is placed level adjusting two turn-in front feet of the refrigerator.
 - Once placed, make sure the refrigerator is not standing on the power supply cord.
- The **PE 507, PG 507** refrigerator is equipped with a cover top and is designed to fit under a standard 865 mm high counter or bench top.
- For easy opening of the refrigerator door the distance between the side (the hinges side) and the room wall (or similar) should be at least 5 cm.

GB/IE

- Any modification of the refrigerating system is prohibited. Be especially careful not to do any damage to the capillary tube (Photo 3 (1)) located in the recess next to the compressors. The tube cannot be bent, straightened or coiled. Damage of the capillary tube by the user waives the guarantee of the refrigerator.



Connection to the power supply system

If the fixed power supply cable is damaged, it should be replaced by the manufacturer or at an authorized servicing outlet, or by a qualified person to avoid danger.

Electrical connection

The appliance is intended for connection to alternating current. The connection values for voltage (V) and frequency (Hz) are given on the nameplate in the cabinet.

Power must be connected via a wall socket with switch. The wall socket should be easily accessible.

All earthed requirements stipulated by the local electricity authority must be observed. The cabinet plug and wall socket should then give correct earthed. If in doubt, contact your local supplier or an authorized electrician.

WARNING – This appliance must be earthed

The flexible cord (mains lead) fitted to this appliance has three cores for use with a 3-pin 13-amp or 3-pin 15-amp plug. If a BS 1363 (13-amp) fused plug is used, it should be fitted with a 13-amp fuse.

Note:

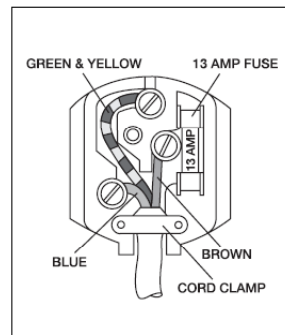
First connection to the mains.

The appliance provides information about the higher temperature (Hi alarm) till the moment of cooling. The alarm is signalled by a sound signal and “Hi” caption on the display.

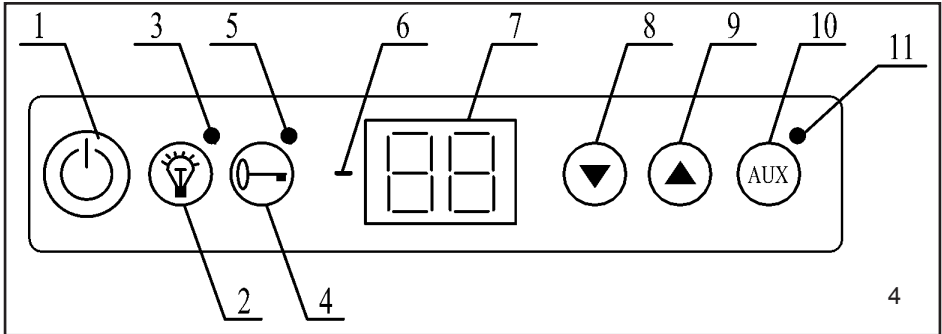
To cancel the alarm, press any push button.

Until the moment of cooling, the alarm is repeated every 15 minutes.

Such an operating mode is normal until the required temperature settings are reached.



Operation



1. User interface (Photo 4)

Button (1) 'I' (ON /OFF) – pressed for about 2-3sec – switches on and switches off whole product's controlling,

Button (2) 'light' – turns on and off the lighting, if it is not turned off, it turns off automatically after 3 minutes.

Green LED diode (3) – indicates lighting turned on,

Button (4) 'lock' – pressed for about 2-3sec – blocks the keypad – does not refer to button (1) driver switch off,

Green LED diode (5) – indicates active blockade function,

'-' minus diode (6) – indication of temperatures below zero,

LED display (7) – temperatures, service parameters and alarm symbols display,

Button (8) '▼' - minimum temperature preview or parameter value decrease,

Button (9) '▲' – maximum temperature preview or parameter value increase,

Button (10) AUX – functional button,

Green LED diode (11) – indication of temperature programming mode – manual switch of AUX output,

2. First start up

After switching on, the driver activates the auto-test procedure. During the first second, it displays dots, program version during next second, dots during the third second and then switches to a normal work mode.

During the normal work mode, the display shows the temperature of a cooler. In case of alarm, it displays E with an alarm number.

If the door is open, a „dr” symbol appears on the display (version with the option of a door sensor).

If the driver is switched off, LED diodes are turned off and the display shows two horizontal lines.

The display indicates temperature of the cooler within the range of -30°C to $+30^{\circ}\text{C}$

3. SET UP

3.1 Deleting recorded exceedance (MIN / MAX):

- pressing buttons (8) '▼' and (9) '▲' for about 2-3sec results in deleting saved min/max temperatures and saving current temperature in the driver's memory

4. Defrostation

Defrostation is turned on automatically every 8 hours (C0 parameter). Maximum length of defrostation is 30 minutes (C1 parameter).

Cooler compressor is turned off during defrostation.

Defrostation is finished also when the temperature of the evaporator is higher than +4°C.

If the evaporator temperature sensor is damaged, temperature-conditioned defrostation completion will not occur.

Defrostation occurs also when the cooler sensor is damaged and the compressor works using emergency mode in the c6/c7 time cycle.

5. ALARM CONDITION / REMOTE ALARM

On PE 507 and PG 507 models the cabinet alarm can be connected to a remote control station via two 4mm jack-plugs on the rear of the control panel.

Note! The power source for this circuit must be external to the cabinet and MUST NOT EXCEED 50 V AC/DC. This must be installed by a competent electrician.

In normal conditions (no alarm) the AUX relay OPENS the contact for the remote alarm facility.

When there is alarm condition (Hi/Lo temperature, E1, E2, probe failure), the AUX relay CLOSES the contact.

In alarm condition (excluding power failure), pressing any button for 1 second causes the alarm display to be cancelled, the buzzer to be muted and the AUX relay to open the contact.

After the alarm has been silenced, if the alarm ends , all indications are erased.

6. Alarms

A displayed alarm should be saved even if the cause of the alarm does not exist anymore (except the open door alarm).

Alarms are not saved after switching off (lack) of power.

E1 – cooler sensor malfunction – if the reason of the alarm still exists, it can not be deleted,

E2 – evaporator sensor malfunction – if the reason of the alarm still exists, it can not be deleted.

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Hi – maximum set temperature of the product exceeded by a difference set in d6 parameter by 15 minutes' alarm delay time (c8).

Lo – minimum set temperature of the product exceeded by a difference set in d7 parameter by 15 minutes' alarm delay time (c8).

dr – open door alarm - after 3 minutes as a sound alarm – displayed symbol disappears after closing the door.

Pressing a random button deletes the sound signal as well as Hi and Lo indications. E1,E2 deletion by means of turning off the on/off driver after prior elimination of a malfunction.

Storage of produce in the refrigerator

- Produce can be placed in boxes, bottles or other containers. Place it evenly on the shelves. Make sure the contents are not touching the back wall, it could lead to frosting or wetting of the products.
- Do not put any containers with hot contents into the refrigerator.

Defrosting the refrigeration chamber

Frost settles on the back wall of the refrigeration chamber. It is automatically removed. During the defrosting, the condensate can contain some impurities that could clog up the opening in the through. Should it occur, delicately unclog the opening with the cleaning plug. (Photo 5).

The appliance operates in cycles: it refrigerates (frost sets on the back wall during the phase) and defrosts (water flows down the back wall).

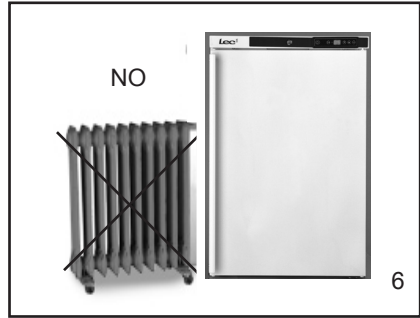
- Turn off the main switch (Photo 4(1)). Unplug the mains cord.
- The whole appliance except the door gasket can be cleaned with mild cleaning detergent. The door gasket should be cleaned with water only and wiped dry. Detergents containing abrasives or acids are not suitable for the cleaning.



Maintenance and Service

Energy saving

- Place the refrigerator away from heat sources (such as radiators and ovens (Photo 6)).
- Make sure air can circulate freely around the refrigerator, do not block the ventilation grid .
- Let any containers cool down before putting them into the refrigerator, at least to room temperature.
- Keep the door open as shortly as possible when putting in or removing contents. The shorter the time the less ice will deposit on the evaporator.



Knowing that you will not use the refrigerator for a long period of time:

- Turn off the main switch (Photo 4(1)). Unplug the mains cord.
- Empty the refrigerator chamber.
- Clean and dry the refrigerator.

Wash carefully all the accessories (contents containers, door shelves, wire baskets, shelf frames).

- Leave the refrigerator door slightly open to prevent the chambers from getting unpleasant smell.

Maintenance

- Periodically, once or twice a year, use a vacuum cleaner to dust the evaporator (black bars) located in the back of the refrigerator. Before the cleaning, turn off the main switch (Photo 4(1)). Unplug the mains cord. Make sure you do not damage the electric wires, the protection boxes and the capillary tube while cleaning.
- **You may come across small problems while using the refrigerator that you can repair yourself.**
- **By repairing yourself any problems except the ones listed in the table below inevitably waives the guarantee rights.**

Different sounds may be heard during operation. The sounds do not effect correct operation of the refrigerator.

The sounds that can be heard during normal operation:

- clicks -heard when the control activates or deactivates the compressor
- buzz -the sound of the compressor intensely working shortly after its activation
- crackles and clatter -coming from the cooling system, caused by expansion and shrinking of parts due to temperature differences before and after compressor activation
- rustle, gurgle, whistle -coming from the cooling system piping, caused by the coolant flowing inside.

Easily curable sources of noise:

- noise caused by the appliance positioned not level - adjust the position with the adjustable turn-in front feet.
- rubbing the adjacent piece of furniture - move the refrigerator a bit.
- creaking of the drawers and shelves -take out and put back the drawer or shelf.
- sounds of clinking containers or bottles -move these apart.

GB/IE

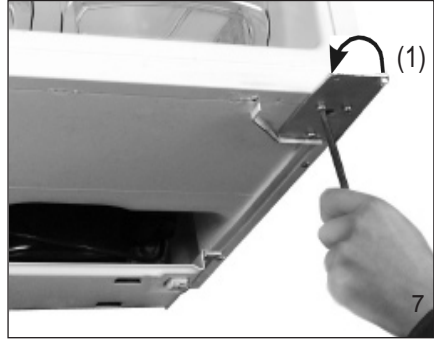
Problem	Reason	Solution
The appliance does not work	A gap in the electric system circuit	<ul style="list-style-type: none"> - make sure the plug is properly inserted into the socket, - make sure there is electricity in the socket by plugging in another electric device, such as a night lamp, - make sure the power supply cord is not damaged,
	The compressor hardly ever activates	- make sure the ambient temperature is not below +16°C,
The temperature inside the chambers is not low enough (the compressor operates continuously)	The door does not shut tight or is opened too often	<ul style="list-style-type: none"> - rearrange the products so as they do not hamper the door, - shorten the time the door is opened,
	The ambient temperature is above +32°C	- the appliance is designed for operation in temperatures from +16°C to +32°C,
	Air circulation at the back of the appliance hampered	- move the appliance a bit away from the wall,
	The appliance is placed in a sunny place or near a heat source	- move the appliance to a different place,
Water collects at the bottom part of the refrigerator chamber	The contents touch the back wall of the refrigerator chamber	- move the food or containers away from the back wall,
	The drain opening is clogged	- take the cleaning plug and unclog the condensate opening,
The appliance makes too much noise	The appliance is not level	- level the appliance,
	The appliance is touching a piece of furniture or other objects	- place the appliance detached, so as it is not touching any objects.

GB/IE

Switching the Door Mounting Side

To switch the door mounting side :

- Turn off the main switch (Phot. 4(1)). Unplug the mains cord.
- Take out all the food from the appliance.
- Remove the adjustment feet.
- Unscrew the lower hinge (Phot. 7) and the element fastening the foot (Phot. 8)
- Take out the refrigerator chamber door.
- Unscrew the upper hinge bolt and drive it in the second hinge in the extreme opening (Phot. 9).
- Mount the refrigerator door by inserting the upper hinge bolt into the door bush and close the door.
- Tilt the appliance back, the magnetic gasket will hold the door.
- Unscrew the lower hinge bolt, drive it into the second opening of the hinge (Phot. 7(1)).
- Tighten the element fastening the foot screw with three screws, replacing the left hinge.
- Drive the adjustable feet in.
- Tighten the handles opposite to the hinges.
- Turn on the refrigerator.



GB/IE

Exchanging the bulb

* Switch off the refrigerator by pressing button ' I ' (Photo 4(1)) and unplug the appliance.

* Unscrew the bulb cover with a cross-head screwdriver and take the cover off (Phot.10).

* Exchange the bulb with a new one observing the parameters:

220 - 240 V,

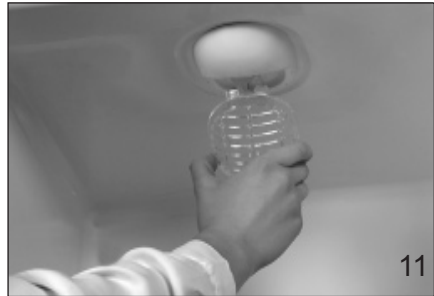
max. 15 W, E14 thread,

maximum bulb dimensions:

diameter - 26 mm,

length - 55 mm.

* Put the cover back and tighten it with the screws (Phot.11).



Service

Spare parts

Glen Dimplex Professional Appliances

(A division of GDHA)

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Customer service

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