

4. MAINTENANCE AND REPAIR

Maintenance and repair must be carried out by qualified personnel authorized by the manufacturer.



The manufacturer declines any responsibility for jobs carried out by unauthorized personnel or the use of non-original spare parts.

4.1 ROUTINE MAINTENANCE



Prohibited to remove the guards and safety devices: It's strictly forbidden to remove guards or safety devices when performing routine maintenance operation. The manufacturer disclaims all liability that may arise this regulation is not observed.

In case of FIRE:

- Disconnect the unit from the electrical power socket.
- Do not use water to extinguish the fire.
- Use powder or foam extinguishers.

4.1.1 Cleaning the interior and exterior of the appliance

The appliance is designed for the laboratory product storage so it is important to keep it clean. The equipment is thoroughly cleaned at the factory before being shipped. We recommend, however, to clean the interior cabinet before the first start up of the appliance. **Before attempt any cleaning operation make sure the power cord is disconnected.**

- Cleaning product: use soft clean cloth wet with water and neutral detergent only. **Do not use solvent or bleach.**
- Rinsing: use a cloth or sponge soaked with fresh clean water. **Do not use water jet.**
- Frequency: once a week or at different intervals in accordance with the type of product.

4.1.2 Condenser cleaning

The condenser is a heat exchanger. If it is dirty or clogged the air cannot circulate freely through the same, it cannot discharge heat properly so reducing proportionally the performance and the efficiency of the refrigeration system.

FOR THOSE REASONS IT IS IMPORTANT TO KEEP CLEAN THE CONDENSER COIL, TYPICALLY MONTHLY.



Always switch off the unit and disconnect power cord before cleaning, it is dangerous to do it with power ON: fan may start suddenly at any time.

Use a convenient ladder to reach the condenser. Use an air jet or vacuum with a soft dry brush if necessary and remove any dust or fluff from the heat exchanger fins.

After cleaning, start the equipment.



During the cleaning operation wear gloves and safety glasses to protect yourself from any injury

4.1.3 Sliding door's rails cleaning.

Keep clean the sliding door housing to avoid the door can't close completely. Use a soft clean cloth or a soft brush in order to remove any residuals can block the door to slide in the full closure position.



5. TROUBLESHOOTING

The Chart shows the most frequent break downs , possible causes and relative remedies:

PROBLEM DESCRIPTION	POSSIBLE CAUSE	SOLUTION
The appliance does not come on	The main switch is "off" There is no tension Other	Main switch "on" Check plug, socket, electric connection Contact technical assistance
The refrigerator unit does not start	Set temperature is reached Defrosting is in operation Control Panel is broken Other	Set new temperature Wait for end of cycle, switch off and switch back on Contact technical assistance Contact technical assistance
The refrigerator is continuously working but does not reach the set temperature	Room is too hot Condenser is dirty Refrigerant fluid is insufficient Condenser fan has stopped Door not properly closed Evaporator is frosted up Defrost valve is open	Air better Clean condenser Contact technical assistance Contact technical assistance Check door seals Manual defrosting Contact technical assistance
Refrigerator does not stop at set temperature	Control Panel is broken Temperature probe is broken Door is not airtight	Contact technical assistance Contact technical assistance Close door
Ice blocks on evaporator	Improper use Control Panel is broken	Contact technical assistance Contact technical assistance
Appliance is noisy	Appliance not levelled Contact with external bodies Screws or nuts loose Other	Check that appliance is level. Check that no tube or ventilator fan is in contact with external bodies. Tighten Contact technical assistance

Safety DC fan does not work	Fan disconnected Stuck fan Fan motor damaged	Re-wire the fan to the electrical strip contact Replace the fan Replace the fan
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IN ORDER TO GUARANTEE THE EFFICIENCY OF THE APPLIANCE AND ITS CORRECT FUNCTIONING THE MANUFACTURER'S INSTRUCTIONS MUST BE FOLLOWED AND PERIODIC SERVICING MUST BE CARRIED OUT BY PROFESSIONALLY QUALIFIED PERSONNEL.

(LEGAL REQUIREMENT FOR THE PREVENTION OF ACCIDENTS AT WORK AND THE INSTALLATION OF ELECTRICAL APPLIANCES)

IT IS OBLIGATORY TO BE IN ACCORDANCE WITH POWER SUPPLY REGULATIONS

6. SPARE PARTS

SUPPLY OF ORIGINAL SPARE PARTS

For the substitution of any parts, spares can be obtained at manufacturer's authorised centres, on giving

- Serial number and year of manufacture (See picture of the data plate, pag.6);
- Component identification number (see Chapter 6).



Any malfunctioning due to non-original spare parts will not be recognised by our technicians.

The parts replacement must be carried out by personnel authorized by the manufacturer.