

SNAIGÉ

MD40DD



MEDICAL REFRIGERATOR

Instruction for use

DEAR CUSTOMER!

CAREFULLY READ THE INSTRUCTION MANUAL. If instructions are not followed, there is a risk of injury, damage of the appliance and loss of the right to free warranty service.

The Manufacturer shall not be held liable for damage arising from the failure to observe the instructions contained in this manual.

Keep this manual for future reference, or to pass it over to the next user.

General information:

The refrigerator is a vertical refrigerator - showcase with a glass package door intended for non-household use. The refrigeration appliance can be used in pharmacies or for other activities, related with storage of medicines.

The noise emitted by the refrigerator does not exceed 50 dB (A).

➞ **The refrigerator complies with the requirements of DIN 13277.**

GUIDELINES CONCERNING THE SAFETY OF USE

General safety requirements:

- WARNING: Do not cover the ventilation openings of the appliance.
- WARNING: Do not use electrical appliances inside the storage compartments of the appliance, unless they are of the type recommended by the manufacturer.
- WARNING: Do not use any mechanical tools or other/chemical agents other than those recommended by the manufacturer to speed up the defrosting process.
- 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.
- WARNING: Disposal of the appliance should be according to national rules.



WARNING: Do not damage the appliance refrigeration system. It contains the refrigerant gas R600a. If the refrigeration system is damaged:

- Do not use any open flame.
- Avoid sparks - do not turn on/off any electrical appliances or lighting fixtures.
- Immediately ventilate the room: air the room in which the appliance is placed for a few minutes (the size of the room for a product containing isobutane/ R600a must be at least 4 m³).



C-Pentane is used as blowing agent in the insulation foam and it is a flammable gas.

- This appliance is designed only for cooling and storing of pharmaceuticals.
- This appliance is not designed for storage of explosives, such as aerosols with flammable gases.
- It is prohibited to store petrol and other flammable liquids near the appliance.
- Do not allow children to play with the packaging material from the appliance.
- Do not allow children to play with the appliance
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Requirements for the connection to the mains:

- The appliance should **ONLY BE CONNECTED TO AN EARTHED SOCKET INSTALLED IN ACCORDANCE WITH THE REGULATIONS**. Make sure that the supply voltage corresponds with the voltage marked on the rating label. This product complies with all binding CE labelling directives. The earthed electrical socket by which the appliance is connected to the mains should be in an accessible place. It is a legal requirement that the appliance is properly earthed. The manufacturer will not be held liable for any damage or injury which may result from the failure to fulfil this requirement.
- It is mandatory to replace a damaged power cord with a proper one of the same type as the one used by the refrigeration appliance manufacturer to prevent damage to health and property
- To avoid the exposure to danger, always have faulty cable be replaced only by the manufacturer, by our customer service or by a qualified person and with a cable of the same type.
- It is forbidden to readjust or modify any parts of the unit. It is crucial not to damage the capillary tube visible in the compressor recess. The tube may not be bent, straightened or wound. If the capillary tube is damaged by the user the guarantee will be void.
- Do not use adapters, multiple sockets and two-wire extension leads. If it is necessary to use the extension lead, it must be equipped with a protection ring and a single socket and must have a VDE/GS safety certificate. If an extension lead is used (with a protection ring and safety certificate), its socket must be

located at a safe distance, away from the sinks, and must not be in a place where it could be flooded by water or waste water.

- The frequency and power of the electricity supply in your house must conform to the general data parameters of the appliance as it is shown in the product label.
- When positioning the appliance, be careful that the electrical cord isn't squeezed in order to avoid damaging it. Do not store heavy objects such as cooling devices or other devices next the appliance in such a way that they could squeeze and damage the electrical cord. This can cause a short circuit and a fire.
- Make sure that the plug of the electrical cord is not squeezed by the back wall of the appliance or otherwise damaged. A DAMAGED PLUG CAN BE THE CAUSE OF A FIRE!



CAUTION! If the installed interior lighting or the advertising panel's light-emitting diode (LED) lamp for the cooling device is not functioning, contact the maintenance and repair representative for replacements. LAMPS CAN BE REPLACED ONLY BY THE MAINTENANCE AND REPAIR REPRESENTATIVE




DO NOT TRY REPAIR THE APPLIANCE ON YOUR OWN. ALWAYS CONTACT AN AUTHORIZED TECHNICIAN. TO AVOID THE EXPOSURE TO DANGER, ALWAYS HAVE FAULTY CABLE BE REPLACED ONLY BY THE MANUFACTURER, BY OUR CUSTOMER SERVICE OR BY QUALIFIED PERSON WITH A CABLE OF SAME TYPE.

Requirements for safe use:

- It is forbidden to use a technically damaged appliance.
- If the appliance is unplugged (for cleaning, moving to another place, etc.), it may be repeatedly switched on after **15 min.**
- When performing activities, such as cleaning, maintenance or moving, the appliance must be completely disconnected from power supply (by pulling the plug out from the socket). **Do not pull on the cord, but hold the body of the plug instead.**
- Do not place heavy objects on the top of the refrigerating appliance.
- Do not place any switched on electrical devices on top of the appliance because this may cause ignition of plastic parts.
- Do not place any dishes with liquids on top of the appliance and do not keep flowers in vases or other liquid-filled vessels on the appliance.


- Do not climb on or sit on the appliance, do not lean on or hang on the appliance doors and do not allow children to do this.
- Do not use water spray and steam to clean the appliance.

 **The appliance should be transported in the vertical position;** do not tilt any more than 30°. THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR ANY DAMAGE OF THE APPLIANCE THAT RESULTS FROM NON-COMPLIANCE WITH THE INSTRUCTIONS FOR TRANSPORTATION.

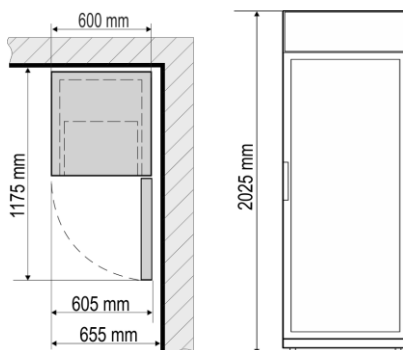
INSTALLATION AND OPERATING CONDITIONS

Positioning:

- This appliance can be installed in a dry, well ventilated indoor location where the ambient temperature corresponds to the climate class indicated on the rating plate of the appliance.


 **CAUTION!** Do not install this appliance in areas that are too humid or too cold. Place the appliance away from heat sources such as kitchen stove/oven, radiators, or direct sunlight. The appliance must not touch any pipes for heating, gas or water supply, or any other electrical devices.

- Do not cover the ventilation holes at the top of the appliances – it must be a good air circulation around the appliance. There should be a gap of at least 10 cm between the top of the appliance body and any furniture that may be above it. If this requirement is not followed, the appliance consumes more electrical energy and its compressor may overheat.
- The appliance must stand on a level surface and must not touch the wall. If necessary, regulate the height of the appliance by adjusting the levelling feet: by turning them clockwise – the front of the appliance rises, by turning them counter clockwise – it comes down. If the appliance is tilted slightly backward – the doors will close by themselves.
- If the appliance is placed in a corner, a gap of at least 5 cm must be left between the appliance body and the wall.



Preparing for operation:


- It is recommended to prepare the appliance for operation with a helper.
- Remove package. Lift the appliance away from foamed polystyrene base. Therefore take out adhesive tapes from sides and simply lift the appliance up and take out the board. Strip adhesive tapes off and open the door. Remove all the red coloured parts, they are only used for the transportation of the appliance.

- When positioning the appliance in chosen location, it will move more easily into position if you lift the front a little and incline it backward allowing it to roll on its casters.
 - **When placing, moving, lifting the appliance, do not hold the door handles, do not pull the condenser at the rear part of the refrigerator and do not touch the compressor unit.**
 - When installing the refrigerator, do not tilt it more than 30 ° to the intended location.
 - When placing the refrigerator in the intended place, turn the front part slightly backwards - you can easily place the roller on the castors in the desired place.
-  The appliance **should not be connected** to the mains until all packing and transport materials are removed. Suitably dispose the packaging material.


First use:

- Before using the appliance for the first time, the interior and all internal accessories should be washed with lukewarm water and some neutral soap to remove the typical smell of a brand-new product, then dried thoroughly.
- Once the unit has been positioned, wait for about **30 minutes** before it is connected to the mains.

 **After connecting the refrigerator to the mains, switch on the emergency backup power supply to the controller using switch 11 (Fig.1)**

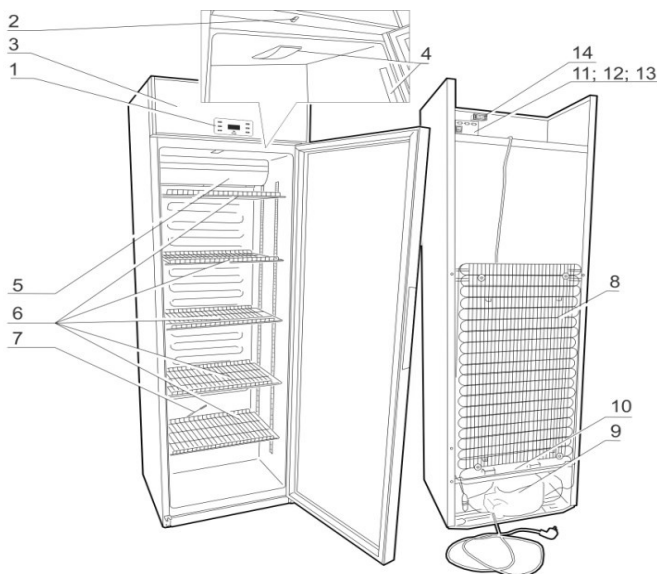
 **When the refrigerator is decommissioned and disconnected from the mains, it is necessary to disconnect the emergency backup power supply to the controller using switch 11 (Fig.1)**

 **If the unit has been tilted more than 30° during transport: Wait at least 4 hours before connecting the appliance to the power supply. If this is not done, the appliance compressor may fail.**

 The products can be placed in the refrigerator when its internal temperature reaches **+ 5 ° C**.

DESCRIPTION OF THE APPLIANCE, BASIC PARTS

1



1	Electronic control panel with buttons	8	Condenser
2	Door opening switch	9	Compressor
3	Advertising panel	10	Tray for collection of the defrost water
4	Interior lighting unit	11	Emergency power disconnect switch
5	Fan	12	External alarm connection
6	Shelves	13	RS485 network connection
		14	Security controller

When the appliance is switched on, the fan starts and works together with the compressor.

When the door is opened, the fan switches off and the interior lighting of the refrigerator turns on. If necessary, the interior lighting can be switched on for permanent lighting.



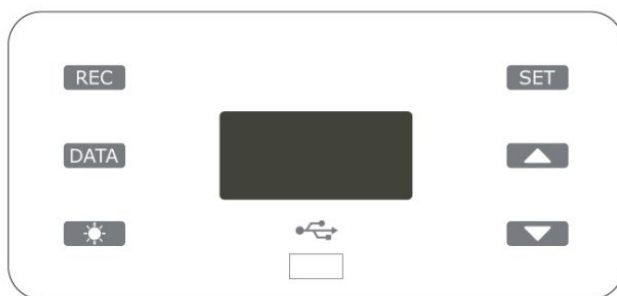
The refrigerator has a second safety controller that prevents the temperature in the refrigerator from falling below + 2 °C.

NOTE. The technical data of the appliance can be found on the rating label attached to the inside wall of the appliance. For more information about the appliance, scan the QR code on the enclosed energy label and / or visit the official website of the product database: <https://eprel.ec.europa.eu>

DESCRIPTION OF THE ELECTRONIC CONTROLLER TEMPERATURE ADJUSTMENT

Electronic controller has the following functions:







1. Temperature recording and alarm recording functions;
2. Transfer of saved data to a **USB** storage device (**USB** storage device is supplied with the refrigerator);
3. Emergency 12 hour power supply and alarm function;
4. Setting the maximum allowable temperature limit;
5. Setting the minimum allowable temperature;
6. Possibility to connect an external alarm system;
7. Possibility to connect to external temperature and other parameters monitoring system XWEB (purchased separately);




SET	„SET“ to display target set point; in programming mode it selects a parameter or confirm an operation
▲	„UP“ to enter fast access menu; In programming mode, scroll through parameter codes or increase the displayed value.
▼	„DOWN“ in programming mode it browses the parameter codes or decreases the displayed value.
DATA	„DATA“ exporting data to a USB storage device
💡	„LiG“ to switch the light
REC	„REC“ the data logging inside the controller is factory activated. Shutdown (password protected), contact service.

Controller LED functions and description

LED	Mode	Function
❄️	On	Compressor enabled
❄️	Flashing	Anti-short cycle delay enabled
❄️	On	Defrost enabled
❄️	Flashing	Drip time in progress

	On	Fan enabled
	Flashing	Fans delay after defrost in progress
	On	There are alarm logs
	On	Recording activated
	On	Battery status OK
	Flashing	Charging problem or battery failure
°C/°F	On	Measurement unit
°C/°F	Flashing	Programming phase



When the appliance is connected to the mains for the first time, the electronic controller will display the current temperature inside the appliance (hereinafter referred to as the **ACTUAL** temperature).

When connected to the mains, switch on the emergency backup power supply to the controller using switch **11 (Fig.1)** on the back of the refrigerator. The symbol  lights up on the controller display.



With the help of emergency backup power only the controller, that registers the temperature change in the refrigerator, operates. All the other electrical components of the refrigerator (compressor, fan, lighting) do not work.

Set the date and time settings, disable the real-time menu (the RTC) alarm.

BEGIN	SET + 	<ol style="list-style-type: none"> 1. Enter the Programming Mode pressing both „SET+DOWN“ keys for 3sec. 2. Use the UP or „DOWN“ button till the „CLO“ menu is displayed
Display	Press SET to enter the settings menu	
Display	<ol style="list-style-type: none"> 1. Hur =hour → press „SET“ to modify/confirm. „UP/DOWN“ – to modify the parameter. 2. Min =minutes → press „SET“ to modify/confirm. „UP/DOWN“ – to modify the parameter. 3. dAy =Day of the month → press „SET“ to modify/confirm. „UP/DOWN“ – to modify the parameter. 4. Udy =Day of the week → (Sun, Mon, Tue, Ued,thE, Fri, Sat) press „SET“ to modify/confirm. „UP/DOWN“ – to modify the parameter. 5. Mon =month → press „SET“ to modify/confirm. „UP/DOWN“ – to modify the parameter. 6. yEA =year → press „SET“ to modify/confirm. UP/DOWN – to modify the parameter. 	
EXIT	SET + 	Press both SET and UP together The audible alarm is switched off at the same time. Exiting the menu takes place automatically without activating any button for about 10s



The refrigerator is unadjustable and the appliance is set at a temperature of +5 °C at the factory.

The set temperature can be changed by the manufacturer or SNAIGÉ SERVISAS official representatives.



Electronic controller will always display the actual temperature in the refrigeration unit instead of the set temperature.

NOTE. The electronic controller on the display shows the variable air temperature near the evaporator and is used to control the refrigeration unit. I.e. the controller displays the actual average temperature, so **when storing products that are sensitive to temperature changes**, it is recommended to use additional temperature measuring devices (positioned at different device heights) for optimal temperature selection.

Temperature recording and data transfer to a USB key

To export log data to a USB key, follow these steps:

1. Insert the supplied product-specific USB storage media that comes with the refrigerator;
2. Press the „**DATA**“ button until „**dat**“ appears;
3. The controller starts transferring data to the USB key;
4. The message „**Lod**“ will be displayed on the screen during data export, and then a message „**Alr**“;
5. When the data transfer is complete, the following message will be displayed:
 - „End“ if everything's okay
 - „Err“ if the data transfer failed.

The controller keeps the logs last:


- a) 100 alarm entries along with the date and duration of the event „**ALARM.txt**“
- b) A summary of temperature measurement records along with the date and time of the recording „**DATA.txt**.“

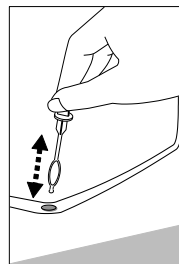
CLEANING AND CARE

THE REFRIGERATING APPLIANCE DEFROSTS AUTOMATICALLY. Drops of ice that form on the back wall of the refrigerator compartment thaw during the time the compressor is not working. Indication appears on the screen of electronic controller. Thaw water runs down the thaw water runoff channel to the tray on top of the compressor, where it evaporates. CLEAN THE APPLIANCE.



Warning: Be sure to unplug the battery before cleaning using the on / off button on the back of the refrigerator and unplug it from the electrical outlet.

- Protect the appliance inner surfaces and plastic parts from fats, acids and sauces. In case of accidental spills – immediately clean with warm soapy water or dishwashing detergent. Wipe dry.
- Regularly clean the hermetic gaskets of the doors. Wipe dry.
- At least once a year clean dust away from the back part of the appliance body and the compressor. A soft brush, electrostatic cloth or vacuum cleaner may be used for cleaning.
- Regularly clean the thaw water channel space in the refrigerator with a special cleaner for that purpose **(see fig.)**. 
- Clean the glass with glass cleaner.
- **DO NOT** use detergents containing abrasive particles, acid, alcohol or benzene for cleaning the appliance inner and outer surfaces. Clean the glass with glass cleaner
- **DO NOT** use for cleaning cloths or sponges that have coarse surfaces intended for scrubbing.
- **DO NOT** use spray ice solvents.
- **DO NOT** clean with compressed air / steam.
- If the appliance is to be left switched off for an extended period switch off the mains voltage, disconnect the battery using the On/Off switch, clean, dry it out and leave its doors open to avoid mould.

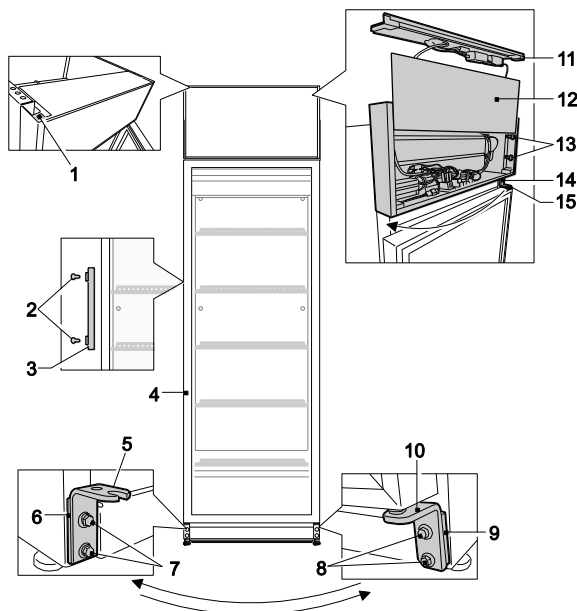


CHANGING THE OPENING DIRECTION OF THE DOORS

It is recommended that changing the opening direction of the doors should be done with a helper. You will need two spanners No. 8 and No. 10 and a head screwdriver.



When changing the opening direction of the doors, YOU CAN NOT lay the refrigerator horizontally!



Before you start, please note the following:

- Always ensure that the correct number of washers is used on all hinge bolts and screws.
- So that the doors can close tightly against the frame, take the utmost care that they are properly aligned during reassembly.

Do the actions below in the order they are listed (see fig.):

- 1. Turn off the appliance and pull the plug out of the electricity supply socket.**
2. Turn the refrigerator at a 45° angle.
3. Remove the two screws (8) and separate the bottom bracket (10) together with the washers and gaskets (9) on the small axle.
4. Remove the two screws (7) and separate the bracket (5) and the gasket (6).
5. Separate the door (4).
6. Remove the 4 screws (1) at the top of the advertising panel, separate the top of the advertising panel (11), remove the front part of the advertising panel (12), and then remove 4 screws (13) and separate the advertising panel; then loosen the 2 screws (14) and transfer the upper bracket (15) to the other side. Assemble the advertising panel in reverse order.
7. Turn the door 180°, insert the upper axle and mount the door on it.
8. Remove the mounting screws (2) from the door, separate the handle (3) and attach it by screwing the screws into the holes on same side.
9. Using the supplied washers and gaskets, attach the lower bracket (10) on the opposite side of the cooler, but first attach the bracket axle to the door. Screw in the bracket (5) on the opposite side of the cooler.

If the unit has been tilted to more than 30°, wait for about 4 hours before re-connecting it to the mains.

NOTE. Door position is not reversible for refrigerators with mechanical lock.

OPERATION PROBLEMS AND THEIR SOLUTIONS

- **The appliance is plugged in to the mains but it does not work.** Check if your house electricity supply installations are in order. Check if the plug is correctly inserted into the electricity supply socket.
- **The noise has become louder.** Check if the appliance is standing stable, on a level place. To make it level, regulate the front feet. Check if the appliance is not touching any furniture and if no part of the refrigeration system at the back part of the appliance body is touching the wall. Pull the appliance away from any furniture or walls. Check if the cause of increased noise isn't due to bottles, cans in the appliance that might be touching each other.
- **Water has appeared at the bottom of the refrigerator compartment.** Check whether a thaw water channel space isn't blocked. Clean the thaw water channel space with a cleaner intended for that purpose.
- **When the appliance door is opened, the rubber sealing gasket pulls out.** The gasket is smeared with sticky foodstuffs (fat, syrup). Clean the sealing gasket and the groove for it with warm water containing soap or dishwashing detergent and wipe dry. Put the rubber sealing gasket back into the place.

- **High temperature in appliance, the compressor operation pauses are short.** Ascertain whether the appliance door/doors are shutting tightly, whether the door wasn't kept open longer than necessary when taking out or putting in foodstuffs or whether a large amount of warm food was placed in the appliance.
- **The top of the appliance has condensation on it.** The ambient relative air humidity is above 65 %. Ventilate the room where the appliance stands and if possible remove the cause of the humidity.

Electronic controller indication values

Indication	The reason	What to do?
„PF1“	Defective control sensor	Contact Snaigé Service
„PF2“	Defective evaporator sensor	Contact Snaigé Service
„PF3“	Defective temperature registration sensor	Contact Snaigé Service
„HA1“	High temperature	Check operation of the refrigerator, ambient temperature.
„LA1“	Low temperature	Contact Snaigé Service
„dA“	Open door alarm	Close the door tightly
„CA“	Severe alarm	Contact Snaigé Service
„EA“	External alarm	Contact Snaigé Service

- The alarm message is displayed as long as the alarm condition persists.
- All alarm messages are displayed alternately with the internal temperature, except for **„PF1“**, which flashes.
- The visual indication of all faults is accompanied by an audible signal. This audio signal can be turned off by pressing any button.
- Refrigerator has the possibility to connect an external emergency alarm.

ENVIRONMENTAL PROTECTION INFORMATION

Important Note:

This appliance is marked according to the European directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE). By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.



The symbol on the product, or on the documents accompanying the product, indicates that this appliance may not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment.

A rechargeable battery is installed in the appliance.

The battery must be removed when you wish to dispose of the appliance and sent for separate waste treatment for batteries.

Do not damage or short circuit the battery.

Disposal must be carried out in accordance with local environmental regulations for waste disposal. For more detailed information about treatment, recovery and recycling of this product, please contact your local authority, your household waste disposal service or the retailer where you purchased the product.

Our packaging are made of environmentally friendly materials, which can be reused:

- The external packaging is made of cardboard/foil
- The FCKW free shape of foamed polystyrene (PS)
- Polyethylene (PE) foils and bags

The refrigerants and foaming agents, which are 100% free of FCKW and FKW have been used for manufacturing our product. Therefore we are helping to protect the ozone layer and prevent the increase of greenhouse effects. Also, the innovative technology and environmentally friendly insulation help in reducing energy consumption.

WARRANTY SERVICE

IN THE EVENT OF A MALFUNCTION OF YOUR REGRIGERATOR, MAKE SURE IF YOU CANNOT REMOVE THE CAUSE OF THE MALFUNCTION YOURSELF. If you are unable to solve the problem yourself, contact your nearest Refrigeration Service Representative by phone or in writing. Be sure to indicate the model (Тип/Тип and MODEL) and number (Ser.No/Фабрик Но) of the refrigerator. You will find this information on the product label affixed to the inside wall of the refrigerator.

ATTENTION BUYERS!

When purchasing the refrigerator, check the operation of the product to make sure that the appliance is complete. READ THE INSTRUCTIONS FOR USE CAREFULLY. Notwithstanding the instructions and requirements listed in this manual, there is still a possibility of damaging the appliance and LOSING THE RIGHT OF FREE WARRANTY. During warranty maintenance, damaged (but not broken) parts and components of the refrigeration appliance are replaced free of charge.

Warranty period:

- Medical refrigerators are provided with a 12 month warranty.

Prerequisites for warranty repairs:

- It is necessary to have the original warranty card and the cash register receipt or other document confirming the purchase and sale of the appliance from the seller with the date of slafe of the refrigeration appliance and the store stamp. The model and serial number of the warranty card must match the model and serial number on the product label-sticker inside the refrigerators. There can be no corrections.

ATTENTION! If the date of sale is missing or is not clear, the beginning of the warranty period is calculated from the date of manufacture of the refrigerator.

ATTENTION! The appliance must be connected to an earthed mains supply and installed and operated in strict accordance with the manufacturer's instructions in the appliance's operating instructions.

Warranty service is terminated:

- Due to mechanical damage to the casing or other damage, caused by the fault of the purchaser during the transport of the refrigerating appliance. In the event of a dispute, the packaging of the refrigeration appliance must be provided.
- Damage, breaking of parts, odors due to improper use, installation, connection to the mains or transporting of the product without following the manufacturer's instructions in the instruction for use.
- If the refrigeration appliance is operated in unsanitary conditions, the cause of appliance failure are insects, rodents and other extraneous factors.
- If the refrigeration appliance was repaired during the warranty period by non-SNAIGÈS SERVISAS or its official representatives.

Other conditions:

- The warranty does not cover the interior light source(s) and internal plastic (components) of the appliance.
- If during the warranty period of the appliance, the purchaser refuses the device, or requests that it be replaced when the defect in the appliance can be rectified, the purchaser must reimburse the company for the losses caused by returning or replacing the appliance.
- The warranty period for a replaced refrigeration unit is calculated from the date of sale of the replaced appliance, which is recorded on the warranty card stating that the appliance has been replaced.
- For calling SNAIGÈS SERVISAS or its authorized representatives when the original warranty card is not available or when the appliance's warranty period has expired, the appliance has not been repaired by the above-mentioned service department during the warranty period, the appliance has not been used in accordance to the instructions for use, the transportation and work time are paid by the buyer according to the rates of SNAIGÈS SERVISAS or its authorized representatives.

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