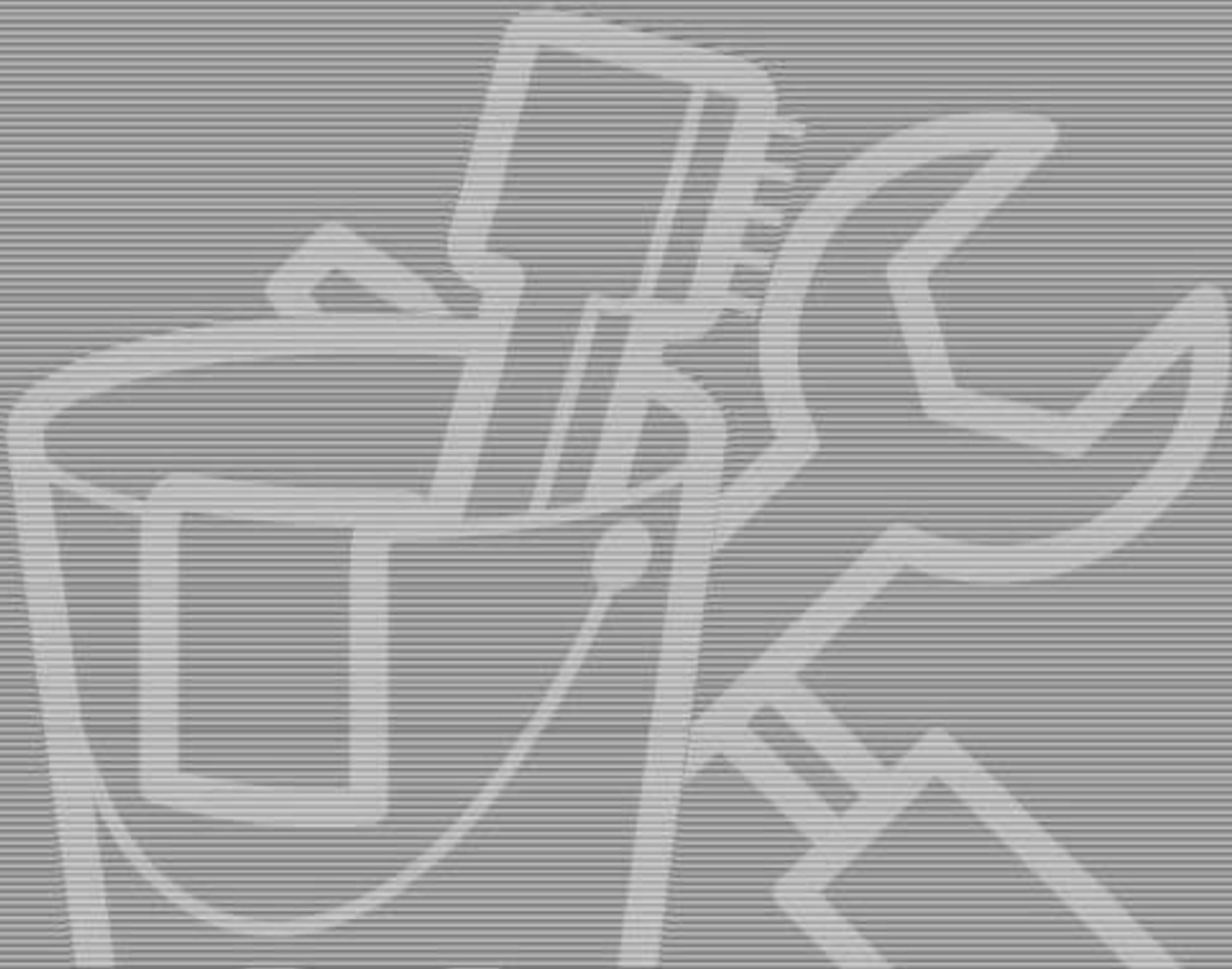


Operation and Maintenance Manual



Glass Door Refrigerator



www.beer-co.com



UA.TR.087

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General Information

The Purpose of this Manual

This manual is intended to provide information about the device, its operating principle, and features of use, including the guidelines for installation, switching-on, loading the product, maintenance and repairs of the compression display refrigerator (hereinafter “refrigerator”) throughout its whole lifetime.

The following symbols are used in this Manual:

| Symbol | Meaning | Explanation |
|---|-----------------|--|
|  | Recommendations | The user should pay attention to and act according to the recommendation to ensure the normal operation of the equipment. |
|  | Warnings | The user should pay attention to and act according to the directions to avoid damage to the equipment and keep the safety regulations. |



When purchasing the refrigerator, check its operability and package contents; check for any mechanical damage; make sure the documents contain the date of sale and the seller’s signature attested by a seal.

Save this Manual throughout the whole lifetime of the refrigerator.

The general view of the display refrigerators is shown below.





Installation

- During the installation and assembly of the refrigerator, the specifics of the place of installation, as well as the requirements of this Manual, should be taken into account.
- The installation, maintenance, and repairs of the refrigerator should only be performed by the technical service specialists authorized to perform repairs and maintenance of this type of equipment.



The manufacturer cannot be held responsible for damage and malfunction of the refrigerator caused by failure to keep the rules and recommendations of this Manual.



The repairs on the refrigerator can only be performed by the persons authorized for this kind of work on refrigeration equipment.

Chapter 1: Technical Specifications and the Delivery Set



The refrigerator model, refrigerant type and capacity, power, and electricity supply requirements are indicated on the nameplate inside the refrigeration chamber.

Brief overview of the technical specifications is provided in the certificate. Detailed information on the technical specifications of refrigerators by model can be found in the manufacturer's display refrigerators catalogue.

The delivery set includes the following:

| Part | Units | MEDIUM | OPTIMA | LARGE | SUPER LARGE | DYNAMIC | SLINE-350 | SmartCool-350 | EXTRA LARGE | VEGA | VIRGO | PRIME | ACTIVE LARGE | PEARL |
|---|--------------|--------|--------|-------|-------------|---------|-----------|---------------|-------------|------|-------|-------|--------------|-------|
| Refrigerator | pcs. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Certificate | pcs. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Operation Manual | pcs. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Shelf Brackets * | pcs. | 20 | 20 | 40 | 40 | 20 | 20 | 20 | 40 | 20 | 20 | 20 | 40 | 20 |
| Shelves * | pcs. | 5 | 5 | 10 | 10 | 5 | 5 | 5 | 10 | 5 | 5 | 5 | 10 | 5 |
| Adjustable Supports | pcs. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | - | 2 | 2 | 2 | - | 2 |
| Lower Front Grate | pcs. | 1 | 1 | 1 | 1 | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| Lower Back Grate | pcs. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Packaging | pcs. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Condensate Container | pcs. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Door Lock Keys (Remote controls) *** | pcs. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

* Number depends on the number of shelves

** Extra shelves are optional

*** At presence of mechanical (electronic) lock

Chapter 2. Technical Description

2.1. Refrigerator Structure and Operating Principle

The refrigerator consists of the body with an inner isolated chamber and the refrigerating unit compartment in the lower part of the body.

The refrigeration system is a compression cooling machine, its principal parts being the compressor, the vapor condenser, the evaporator apparatus with a fan, the drying filter, and a copper capillary pipe.

The abovementioned parts are connected by brazed copper pipe joints into a closed airtight system filled with ozone-friendly refrigerant. The evaporator apparatus is in the upper part of the refrigeration chamber (ribbed pipe evaporator) or on the back wall of the chamber (roll bond evaporator) and is blown on by the fan. The evaporator fan blowing on the heat exchange apparatus supplies cool air to the refrigeration chamber.

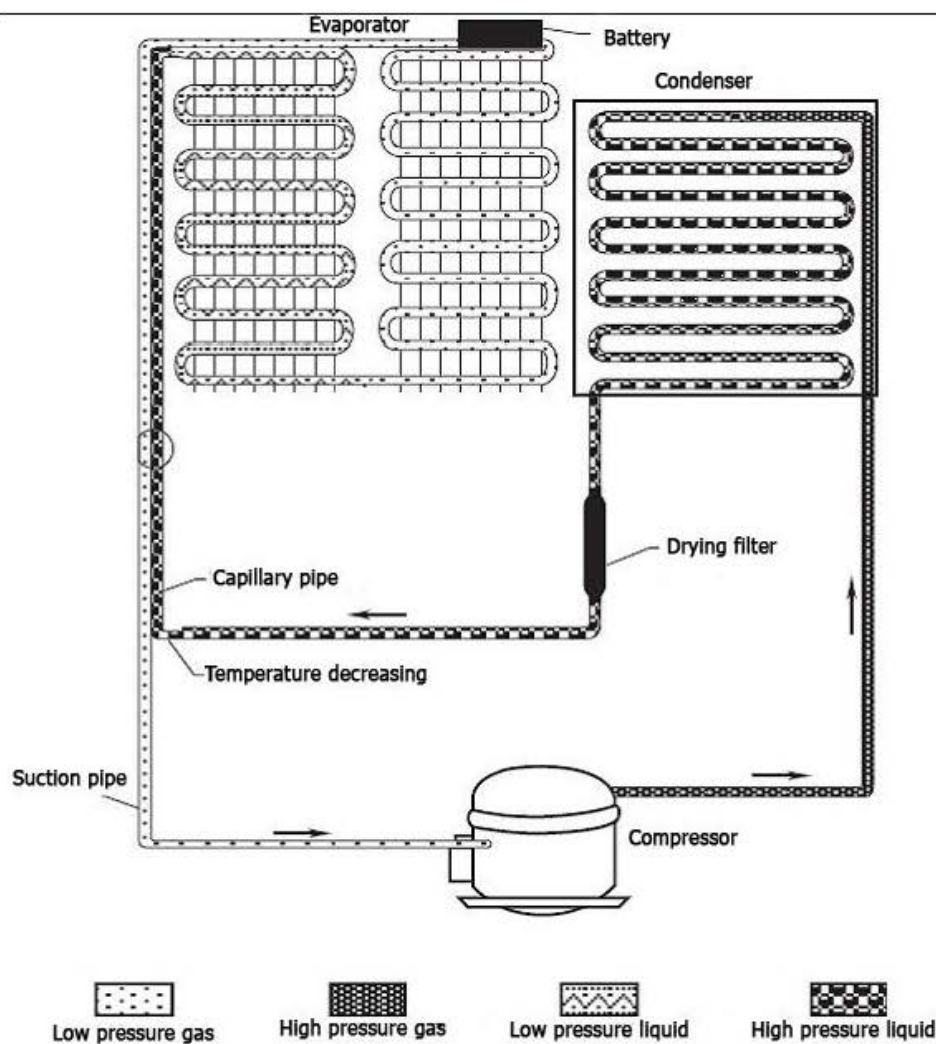
The thermostat temperature sensor is used to control the air temperature inside the refrigeration chamber and is installed in the conventional point of average chamber temperature.

The vapor condenser condenses the refrigerant vapor in the refrigerating unit, and, depending on the refrigerator model, can be

either fan-cooled or not (for static vapor condensers). The ribbed tube fan-cooled condenser is located in the lower part of the refrigerator behind a metal grate; if the condenser is of static, no-fan type, it is located on the refrigerator back wall. The cooler fan and the compressor are switched on and off synchronously by a signal from the thermostat temperature sensor. The thermostat sets the working temperature range in the chamber and maintains the preset temperature conditions using the temperature sensor inside the refrigeration chamber.

When the refrigerator is switched on, the compressor starts pumping the Refrigerant vapor from the evaporator apparatus to the vapor condenser, where the vapor is cooled, condensed, and becomes liquid. From here the liquid Refrigerant passes through the drying filter and the capillary pipe to the evaporator. The drying filter purifies and dries the passing refrigerant. It is a cylinder filled with a water-absorbing substance (silica gel or zeolite). The liquid Refrigerant passing to the evaporator channels boils and starts taking away the heat from the evaporator surface, thus cooling the refrigerator from inside and the products loaded into it. The cycle repeats continuously until the temperature, controlled by the thermostat, reaches the required value, after which the compressor is turned off. Under the influence of the environment, the temperature in the chamber rises, and the compressor is turned on again. Such periodic cooling cycles maintain the temperature inside the refrigerator as determined by the thermostat settings.

Below is a scheme illustrating the operating principle of the refrigeration system.



2.2. Working Temperature Range

The refrigerator can be used both indoors and outdoors.

Model refrigerating cabinet, depending on supply, can match the climatic class in the range 1-5. The exact climatic class refrigeration cabinet is marked on the identification plate inside the refrigerating chamber.

The manufacturer guarantees the normal operation of refrigerated cabinet at the ambient temperature from +16°C to +35°C and relative humidity up to 80%. For the maintenance of the temperature range inside the refrigerator, it is equipped with a thermostat (electronic or mechanical). The factory presets of the thermostat are as follows: minimal chamber temperature, at which the compressor is turned off, is +3 °C; maximal chamber temperature, at which the compressor is turned on, is +8 °C. **Temperature settings disable and enable the compressor may differ on.** The procedure of temperature change is performed according to the manual for the given thermostat model.



The thermostat settings can, if necessary, be modified only by service personnel servicing similar refrigerator equipment. Unauthorized modification of thermostat settings stopping of term of guarantee service.

2.3. Putting into Operation

Before the refrigerator is put into operation, install it according to the requirements of Chapter 3.

Load the products into the refrigerator. Switch on the power supply: plug the power cord into the electricity supply network and turn on the power by pressing the power button on the front panel.



Before placing the refrigerator into operation, please read the instructions on preparation and use of the refrigerator, provided in this Manual.

2.4. Temperature Parameters

The refrigerator is equipped with a thermostat (electronic or mechanical) for the maintenance of the required temperature range inside the refrigeration chamber. The factory presets of the thermostat are as follows: minimal chamber temperature, at which the compressor is turned off, is +3 °C; maximal chamber temperature, at which the compressor is turned on, is +8 °C. **Temperature settings disable and enable the compressor may differ on.** The procedure of temperature change is performed according to the manual for the given thermostat model.



The thermostat settings can, if necessary, be modified only by service personnel servicing this kind of equipment. Unauthorized modification of thermostat settings stopping of term of guarantee service.

Chapter 3. Operations Instructions



The refrigerator must be transported and carried in upright position. It is recommended that the refrigerator be switched on at least in 4 hours after it has been installed according to the instructions of this Manual.

3.1. Unpacking

Carefully unpack the refrigerator. Do not turn it upside down; do not put it on the side. After unpacking, visually check for damage. Take the refrigerator off the wooden pallet after unscrewing the restraints (below on the back side of the refrigerator and behind the front metal grate inside the service compartment) using A/F 10 wrenches and PH 1 slotted screwdriver.

3.2. Positioning and Installation



For normal operation, it is recommended to install the refrigerator away from any heating appliances and direct sunlight.

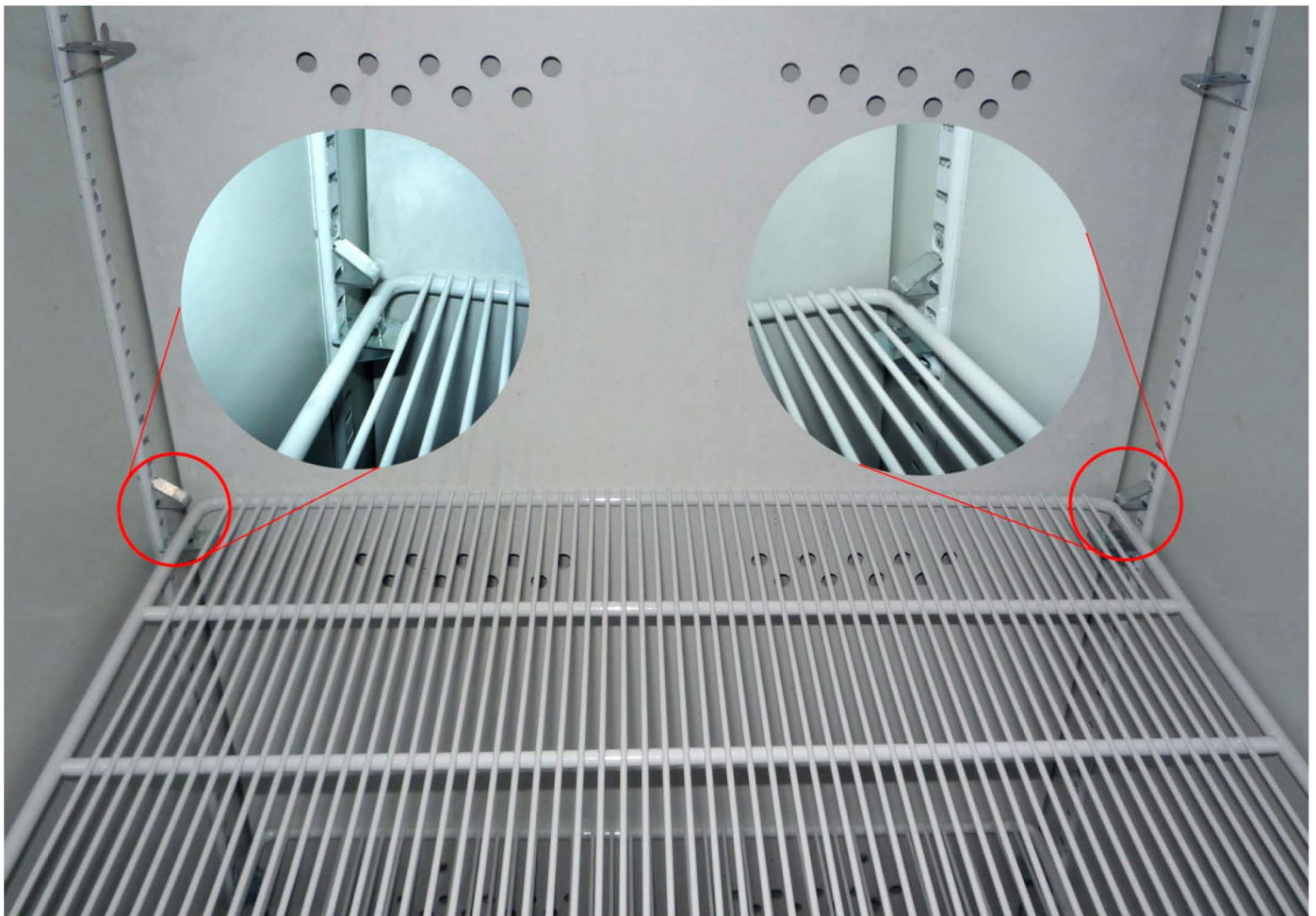
- Install the refrigerator on the horizontal floor surface using the front support; if necessary, adjust the front feet (see image below).



- Install the shelves inside the refrigeration chamber in the sequence illustrated below.



After assembling of the shelves on the clips **OBLIGATORY** adjust the fixing unit of the shelf as indicated on the picture below.





The refrigerator must be installed and position so that there is at least 20 cm space between the refrigerator back wall and any walls or objects behind it for unobstructed air circulation.

It is very important to ensure free air circulation around the refrigerator. Failure to do this will decrease the refrigerator's efficiency and may lead to malfunctions and breakdown.

- Visually check the power cable and the plug for mechanical damage.



DO NOT connect the refrigerator to the power supply if any mechanical damage to the power cable or the plug is found. The power cable and the plug need to be replaced.

- Plug the power cord plug into a grounded electrical outlet.



DO NOT use the refrigerator if the electrical outlet does not have a ground lead.
DO NOT plug several refrigerators to a single electrical outlet via a power strip.

3.3. Operating Condition

The refrigerator is on if the compressor, vapor condenser fan (if present in the given refrigerator model), and the evaporator fan are turned on.

3.4. Safety Regulations

Those who are installing the refrigerator and placing it into operation must be acquainted with this Manual and perform the works according to its recommendations and requirements.



During the operation, please follow the safety regulations provided in Paragraph 3.5.

3.5. Safety Requirements



The article belongs to the 1st electric safety class (grounding circuit required).

Before connecting the refrigerator to the power supply network, make sure that:

- the power supply voltage is within the range indicated on the refrigerator nameplate, e.g. 220V (+10%, -15%) or 115V (+10%, -15%);
- the power supply cable and the plug do not have any damage.

The refrigerator must be connected to a grounded power outlet. Check this before installation.

Should the signs of electric circuit shorting occur (specific smell, smoke), cut off the power from the electricity supply network and call in a service specialist for malfunction repair.

DO NOT use the refrigerator if:

- the operating supply voltage deviates from the 220V (or 115V) more than by +10%, -15%;
- the environment humidity or dust levels are elevated (relative humidity above 80%, when the ceiling, floor and other objects in the room are covered with moisture);
- the surrounding air temperature is above 40 °C;
- the environment is chemically active, which destroys the electric insulation and contact oxidation;
- the floor surface is conductive.

Switch off the refrigerator and disconnect it from the power supply in the following cases:

- while cleaning the refrigerator;
- while loading and unloading the products;
- while moving the refrigerator;
- during maintenance operations.



The manufacturer cannot be held responsible for possible user trauma or equipment damage caused by failure to follow the instructions provided herein.



If R600a or R290, a natural gas of flammable type, is used as a refrigerant in the refrigerated cabinet, avoid any open fire or potential ignition source and thoroughly ventilate the room, where the refrigerated cabinet is located, in case of the accidental damage of refrigerant circuit. The volume of room should be 1 m³ per each 8 g of R600a or R290 refrigerant in the unit. Never start up the refrigerator showing any signs of damage; if you doubt the unit integrity, please contact an authorized service center.



WARNING. Do not use electrical appliances inside the unit.



WARNING. Do not block the air vents, located in the unit body or built-in equipment.



WARNING. Avoid damaging the refrigerant circuit.



WARNING. Do not use any mechanical devices or other means to accelerate the defrosting process.



WARNING. Do not keep explosive materials and objects such as aerosol containers with flammable mixtures inside this unit.



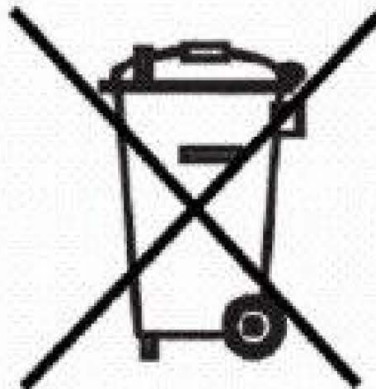
WARNING. To reduce the risk of fire, this unit should be installed only by the adequately qualified personnel.



WARNING. If you decide to stop using your refrigerator, take care of its disposal.

As the insulating foam of your refrigerator contains carbon dioxide, contact the local disposal facility in this case.

This unit should be disposed of in a correct way. WEEE symbol is used in the European Union and other European countries with the system of collection and disposal of worn-out household appliances.



This symbol on the unit or in the manual shows that the product should not be disposed of together with other household waste not to harm the environment because of uncontrolled waste distribution and to optimize the recycling and reuse of materials.

The consumer can take the worn-out equipment to the specialized waste collection points or, if it is stipulated by the national laws, return it to the company when buying a similar product.

Chapter 4. Cleaning and Care

4.1. General Information



Disconnect the refrigerator from the power supply before cleaning or maintenance works.

The repairs on the refrigerator and care for the closed refrigerant systems, as well as filling in the refrigerant, can only be performed by the personnel authorized to perform work with refrigerants and torch brazing.

NEVER use the refrigerant different from the one indicated on the nameplate. The refrigerant type is indicated on the refrigerator nameplate.

The refrigerator is designed for minimum technical maintenance. Following the requirements and recommendations of this manual, you will ensure high quality and efficiency of the device. Cleaning and care within the recommendations of this Manual will decrease the chance of malfunction and improve the efficiency of the refrigerator. The maintenance of the refrigerator should be performed within routine inspection schedule described in this Manual.



External and internal surfaces of the refrigerator should be cleaned as necessary, at least once in a month. Before cleaning or maintenance works turn the refrigerator off and disconnect the power plug from the outlet.

4.2. Routine Inspection and Maintenance

- check the indicator light on the ON/OFF button on the refrigerator front panel when the power switch is turned on.
- check the conditions for free air circulation in the service compartment (free space in front of the front and back grates).
- clean the door glasses with a glass cleaning liquid and wipe it dry.

4.3. Regular Care

Before cleaning, make sure the refrigerator is disconnected from the power supply.

- clean the internal and external surfaces of the refrigerator walls by a non-abrasive cleaning fluid and wipe them dry.
- clean the door rubber seal with weak alkaline cleaning liquid and water (recommended pH=8.0..8.5).



To clean the shelves and internal elements of the refrigerator, use weak alkaline cleaning liquid and water (use a soft brush if necessary).



Do not use bleaches or solvents to clean the refrigerator (especially the cleaning liquids containing chlorine or abrasives).

- remove dust, fuzz, and foreign objects from all the condenser and fan plates. Clean the condenser plates with a hard (**not metal**) brush. If possible, clean the spaces between the condenser using a vacuum cleaner or compressed air.



Be careful while cleaning the condenser; avoid damage to the plates.

- examine the condenser and the internal surface of the chamber for damage. If any damage is found, contact the maintenance service to have it fixed by the specialists.



After cleaning and examination make sure that all removable parts are fixed in their places.

Do not use water while cleaning the condenser and the electrical equipment.

To avoid excessive power demand and ensure normal operation of the refrigerator, follow these requirements:

- keep the ventilation openings (front and back grates) clear to provide for free air circulation;
- regularly check the air condenser from dust and litter;
- keep the refrigerator clean.

4.4. Storage and Transportation

- Transport and store the refrigerator packaged until it is placed into operation.
- Store the refrigerator in a dry, well-aired room with relative humidity not exceeding 80%.
- DO NOT stack the packaged refrigerators in two tiers.



The refrigerator must be transported in upright position. It can be transported by any means of transportation. It is not recommended to move the refrigerator after it has been loaded on the vehicle.

4.5. Storage without Packaging

The refrigerator can be stored unpackaged in a dry and aired room protected from water. DO NOT tier the refrigerators.

Chapter 5. Troubleshooting

Please read the list of the typical problems, their causes, and instructions for solving them, before repairs.



Before repairs, cleaning, or maintenance, disconnect the refrigerator from the power supply.

Only service specialists can perform testing and adjustment with power on.

DO NOT open the refrigerant-containing system. If necessary, only a service specialist can perform this operation.

List of typical problems

| Malfunction | Possible cause | Measures to be taken |
|---|--|---|
| <i>The refrigerator is connected to the power supply, but does not function</i> | <ul style="list-style-type: none"> - No power in the outlet - The plug is not completely inserted into the outlet - The thermostat is damaged (no indicator light, error message) - ON/OFF button on the front panel was not pressed | <ul style="list-style-type: none"> - Check the power supply - Check the power cable and insert the plug all the way into the outlet - Call in a service specialist to replace the thermostat - Press the button on the front panel (indicator light seen when turned on) |
| <i>Insufficient cooling in the internal chamber (condenser and evaporator fans working)</i> | <ul style="list-style-type: none"> - Leak of refrigerant - Air-cooled condenser plates blocked by litter - Bad air circulation - Bad thermostat settings | <ul style="list-style-type: none"> - Switch off the refrigerator. Call in a support specialist for leak diagnostics and repairs. - Switch off the refrigerator. Clean the condenser plates. - Clear the space around the refrigerator for free air circulation. - Call in a service specialist to change the thermostat settings. |

| | | |
|---|---|---|
| <i>Compressor does not stop working. The products inside are freezing</i> | Bad thermostat settings | Switch off the refrigerator. Call in a service specialist to change the thermostat settings. |
| <i>The compressor is not working, the condenser fan is working</i> | - Compressor start relay failure - Compressor failure | Call in a service technician for repairs. |
| <i>The compressor is not working, the condenser fan is not working</i> | - Thermostat not working - Compressor and fan failure | Switch off the refrigerator. Call in a service technician for repairs. |
| <i>The condenser fan is not working</i> | - Condenser fan failure | Switch off the refrigerator. Call in a service technician for repairs. |
| <i>Noise from the working refrigerator</i> <i>Noise from the working compressor</i> <i>Noise from the working fan</i> | - Some parts of the refrigerator are touching with the body - Foreign noise in the compressor - Fan motor or blades hold is disrupted - Fan blades are touching the air-cooled condenser | Call in a service technician for repairs. |
| <i>A lot of moisture appears in the chamber. Moisture is dripping from the evaporator.</i> | - Very humid environment. The condensate cannot evaporate fast enough. - Evaporator apparatus is covered with ice. | Switch off the refrigerator. Call in a service technician for repairs and thermostat adjustment. |
| <i>The door won't close</i> | - Automatic door closer is damaged. - The door is sagging. | Call in a service technician for repairs. |
| <i>The illumination and backlight lamps are not lit</i> | - Lamp starter failure - Lamp failure - Ballast failure | Call in a service technician for repairs. |



If the condenser fan fails (in the models with an air-cooled condenser), disconnect the refrigerator from the power supply; otherwise, further operation without the fan will overheat and damage the compressor.

Chapter 6. Warranty Statement

The service life of the display refrigerator body until discarded is 12 years. The manufacturer guarantees normal operation of the display refrigerators under condition that the requirements and the operating rules of this Manual are observed. The manufacturer takes warranty obligations for 2 years from the date of sale or the period specified in the contract.

The model of the refrigerator, its production serial number, and the date of sale are specified in the certificate by the manufacturer or filled in by the organization selling the refrigerator.

The production on the enterprise is performed according to the integrated management system in compliance with the requirements of ISO 9001:2015; ISO 14001:2015; OHSAS 18001:2007.

For notes

Specialized maintenance service guarantee

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