Please read the operating instructions carefully before using this product, and keep the operating instructions for future use.

See page 39 for all model numbers.
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Read the operating instructions carefully before using the appliance and follow the instructions for safe operation.

Handling of Operating Instructions

- PHC Corporation never guarantees any safety if the appliance is used for any objects other than intended use or used by any procedures other than those mentioned in the operating instructions.
- Keep the operating instructions in an adequate place to refer to it as necessary.
- Contact our sales representative or agent if any page of the operating instructions is lost or page order is incorrect.
- Contact our sales representative or agent if any point in the operating instructions is unclear or if there are any inaccuracies.
- The operating instructions is only for the pharmaceutical refrigerator MPR-722 and MPR-722R made by PHC Corporation.
- The contents are subject to change without notice.
- No part of the operating instructions may be reproduced in any form without the expressed written permission of PHC Corporation.

Proposal for safe storage of refrigerator contents

This pharmaceutical refrigerator can store the medical or biological material in the low temperature environment. We can offer some precautions below to protect the valuable material against accidental temperature rise. Contact our sales representative or agent for the details or installation.

- Temperature recorder (Option)
- Battery mounting box (Option)
- Remote alarm system (Marketed product)

IMPORTANT NOTICE

PHC Corporation guarantees this product under certain warranty conditions. However, please note that PHC Corporation shall not be responsible for any loss or damage to the contents of the product.

<Intended Use>

This equipment is designed for storage of pharmaceuticals, samples and reagents.
It is imperative that the user complies with the operating instructions as they contain important safety advice.

Items and procedures are described so that you can use this unit correctly and safely. Following these precautions will prevent possible injury to the user and any other person.

Precautions are illustrated in the following way:

**WARNING**

Waring indicates a potentially hazardous situation which, if not avoided, could result in serious injury or death.

**CAUTION**

Failure to observe CAUTION signs could result in injury to personnel and damage to the unit and associated property.

Be sure to keep the operating instructions in a place that is accessible to users of this unit.

USA Only: This product has a fluorescent lamp that contains mercury. Disposal may be regulated in your community due to environmental considerations. For disposal or information, please visit PHC website: https://www.phchd.com.

For more information on safe handling procedures, the measures to be taken in case of accidental breakage and safe disposal options visit:
ec.gc.ca/mercure-mercury/.

Dispose of or recycle in accordance with applicable laws.
PRECAUTIONS FOR SAFE OPERATION

WARNING

Never damage the power supply cord or power supply plug (by breaking, adapting, placing near a source of heat, bending with force, twisting, pulling, adding weight, or binding). A damaged power supply cord or power supply plug may cause electric shock, short circuit, or fire.

Remove dust from the power supply plug periodically. Dust on the power supply plug may cause insulation failure due to moisture and thus cause a fire. Disconnect the power supply plug and wipe it with a dry cloth.

Make sure the power supply plug is pushed fully in. Faulty insertion of the power supply plug may cause electric shock or fire due to generation of heat. Never use a damaged power supply plug or loose power outlet.

Do not touch any electrical parts (such as power supply plug) or operate switches with a wet hand. This may cause electric shock.

Use a dedicated power source as indicated on the rating label attached to the unit. A multiple-tap may cause fire resulting from abnormal heating.

Do not use the unit outdoors. Exposure to rain may cause leakage and/or electric shock.

Only qualified engineers or service personnel should install the unit. Installation by unqualified personnel may cause water leakage, electric shock, or fire.

Install the unit in a location capable of bearing the total combined weight (product + optional accessories + stored items). After installing the unit, be absolutely sure to take precautions to prevent the unit from falling over. If the unit is installed in a location which is not strong enough or if the proper precautions are not taken, the unit may fall over and cause injuries.

Do not install the unit in a location where flammable or volatile substances are present. Installing the unit in a location where flammable or volatile substances are present may cause explosions and/or a fire.

Do not install the unit where there are high levels of moisture or where it may be splashed with water. Installing the unit where there are high levels of moisture or where it may be splashed with water may cause the insulation to deteriorate and give rise to leakage and/or electric shock.

Be absolutely sure to earth (ground) the unit in order to prevent electric shock. Failure to earth the product may give rise to electric shock. If necessary, ask a qualified contractor to do this work.

Do not connect the earth wire to a gas pipe, water pipe, or lightning rod when earthing the unit. Earthing the unit improperly may give rise to electric shock.
PRECAUTIONS FOR SAFE OPERATION

⚠️ WARNING

Never store volatile or flammable substances in this unit except in a sealed container. Such substances may cause explosion or fire if they leak.

Never insert metal objects such as pins and wires into any vent, gap, or outlet on the unit. This may cause electric shock or injury by accidental contact with moving parts.

When handling harmful samples (for example, those which consist of toxic, pathogenic, or radioactive substances), install the unit inside a designated isolation facility. If the unit is installed in a location which is not an isolation facility, there may be detrimental effects on both people and the natural environment.

Before proceeding with maintenance or checking of the unit, set the power switch to OFF and disconnect the power supply plug. Performing the work while power is still flowing to the product or while the power supply plug is still connected may give rise to electric shock and/or injury.

Wear protective gloves and mask during maintenance. Touching or inhaling chemicals or aerosols from around the unit may be detrimental to health.

Never splash water directly onto the unit as this may cause electric shock or short circuit.

Never put containers with liquid on top of the unit as this may cause electric shock or short circuit if the liquid is spilled.

Never disassemble, repair, or modify the unit yourself. A high-voltage area is located inside the unit. Any work carried out by unauthorized personnel may result in electric shock. Contact our sales representative or agent for maintenance or repair.

Disconnect the power supply plug if there is anything wrong with the unit. Continued abnormal operation may cause electric shock or fire.

Grip the power supply plug when disconnecting the power supply cord from the outlet. Pulling the power supply cord may cause electric shock or short circuit.

Disconnect the power supply cord when the unit is not in use for long periods. Keeping the unit connected may cause electric shock, leakage, or fire due to the deterioration of insulation.

Do not place this unit in a location where it is difficult to disconnect the power supply plug. Failure to disconnect the power supply plug may cause fire in the event of a problem or malfunction.

Ensure that children do not have access and that doors cannot be closed completely.
Ask a qualified contractor to carry out disassembly and disposal of the unit. Leaving the unit in a location that can be accessed by third parties may result in unexpected accidents (e.g. the unit may be used for unintended purposes).

Do not leave the plastic bags used for packing in a place where they can be reached by small children as this may result in unexpected accidents such as suffocation.

When moving the unit, be sure to take precautions to prevent it from falling over. Moving the unit with too much force may cause it to fall over, possibly resulting in injury. A qualified individual must be assigned to supervise the safe movement and relocation of the unit.

Do not install the unit in a location where corrosive gases such as acids are present. Installing the unit in a location where corrosive substances are present may cause electric components to corrode, leading to leakage and/or electric shock due to the deterioration of insulation resulting from corroded electrical components.

Connect the unit to a power source as indicated on the rating label attached to the unit. Use of any other voltage or frequency other than that on the rating label may cause fire or electric shock.

Never replace the battery for the power failure alarm yourself. Only qualified engineers or service personnel should replace the battery.
This unit must be plugged into a dedicated circuit protected by branch circuit breaker.

Use a dedicated power source as indicated on the rating label attached to the unit. A multiple-tap may cause fire resulting from abnormal heating.

Do not climb on top of the unit or put any objects on the unit. Falling from the unit may cause injury; falling objects may cause damage to the unit.

Never install the unit in a location where corrosive materials such as sulphur compounds are likely to be generated (e.g. near a drainage facility). Corrosion of the copper pipes may result in the deterioration and consequently the failure of the cooling unit.

Take care when installing the shelves or drawers. They may cause injury if they fall down.

Before resuming operation after the unit has been turned off, be absolutely sure to check the settings. The settings may have changed as a result of stopping the unit. Items stored inside the unit may be adversely affected if operation of the unit is resumed with changed settings.

Never store corrosive substances such as acids or alkalis in the unit except in a sealed container. These may be detrimental to health and may cause corrosion of internal components, cooling circuit or electrical components.

When moving the unit, contact our sales representative or agent. The moving by a user may cause damage or injury resulting from tipping over of the unit.

Disconnect the power supply plug before moving the unit. Take care not to damage the power supply cord. A damaged cord may cause electric shock or fire.

To ensure the safety of the service engineer, submit a safety check sheet with the required items filled out. This is provided as the photocopiable “Safety Check Sheet” at the end of these operating instructions.
ENVIRONMENTAL CONDITIONS

This equipment is designed to be safe at least under the following conditions (based on the IEC 61010-1):

- Indoor use;
- Altitude up to 2000 m;
- Temperature 5 °C to 40 °C
- Maximum relative humidity 80 % for temperature up to 31 °C decreasing linearly to 50 % relative humidity at 40 °C;
- Mains supply voltage fluctuations up to ±10 % of the nominal voltage;
- Transient overvoltages up to the levels of OVERVOLTAGE CATEGORY II;
- Temporary OVERVOLTAGES occurring on the mains supply;
- Applicable pollution degree of the intended environment (POLLUTION DEGREE 2 in most cases);

SYMBOLS ON UNIT

The following symbols are attached to the unit. The table describes the meaning of the symbols.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>⚠️</td>
<td>This symbol is attached to covers that access high-voltage electrical components to prevent electric shock. Only a qualified engineer or service personnel should be allowed to open these covers.</td>
</tr>
<tr>
<td>⚠️</td>
<td>This symbol indicates that caution is required. Refer to product documentation for details.</td>
</tr>
<tr>
<td>⚠️</td>
<td>This symbol indicates a hot surface.</td>
</tr>
<tr>
<td>⚪️</td>
<td>This symbol indicates an earth.</td>
</tr>
<tr>
<td>🔌</td>
<td>This symbol means “ON” for a power switch.</td>
</tr>
<tr>
<td>🔍</td>
<td>This symbol means “OFF” for a power switch.</td>
</tr>
</tbody>
</table>
Main body

MPR-722

Back side
1. **Front cover**: Open this cover when using the remote alarm terminal or replacing the glow starter [page 13]. To open the cover, pull the lower portion forward.

2. **Control panel**: The chamber temperature and other alarms/functions can be set through the keys on the control panel. The running status can be checked by the temperature display and indicators [page 12].

3. **Light switch**: This is a switch to turn on or off the fluorescent lamp.

4. **Space for temperature recorder**: A temperature recorder (optional) can be mounted here so that the chamber temperature can be recorded automatically [page 39].
   ✷ Contact our sales representative or agent to arrange the installation.

5. **Glass window**: The condensation may be found on the glass under high temperature and humidity condition. Wipe off the condensation with a soft dry cloth.

6. **Keyhole**: Turn the key counterclockwise through 180 degree to securely lock the door.

7. **Dew collector**: The condensation on the glass window is accumulated in this dew collector. Wipe off the water from the dew collector with a cloth.

8. **Leveling foot**: These are screw bolts used to install and fix the unit. Adjust the height of the levelling feet by turning the screw bolts until the two front casters are away from the floor [page 15].

9. **Shelf (MPR-722)**: The location is selectable. The allowable load is 50 kg per shelf.
   ✷ Never store items on the bottom of the chamber. Always store items in the drawers.
   
   **Drawer (MPR-722R)**: The allowable load is 40 kg per drawer.
   
   <Important>
   Do not pull out plural drawers at the same time when putting in and out of the stored items. If you store heavy objects, it may cause injury due to the fall of the unit.

10. **Access port**: This port is used to pass the sensor or cable of measuring equipment, or the sensor of a temperature recorder (optional) to the chamber.
   ✷ Replace the insulation and the rubber caps when the access port is not in use. Improper replacement may cause an increase in chamber temperature or condensation around the access port.

11. **Air exhaust vent**: This is an air exhaust vent to circulating the air in the refrigerator chamber. Do not block this vent.
   ✷ Blocking this vent may cause unstable chamber temperature.
   ✷ Arrange the stored items not to be subjected to the cold air from this vent to avoid freezing.

12. **Air intake vent**: This is an air intake vent to circulating the air in the chamber. Do not block this vent.
   ✷ Blocking this vent may cause unstable chamber temperature.
   ✷ Do not insert fingers or similar articles into this vent.

13. **Door switch**: This switch detects the door open/close status. The door check indicator is lit when the door is opened.

14. **Fixture**: Use the fixtures and secure the unit to a wall with a strong rope or chain [page 15].

15. **Evaporating tray**: Defrost water from the evaporator accumulates on the tray and evaporates into the atmosphere.

16. **Power switch (also functions as a circuit breaker)**: This is the power switch of the unit. (ON="I", OFF="○")
   ✷ The round button under the power switch is a test button for the circuit breaker. After pressing this button, the power to the unit is disconnected.
1. **Door check indicator (DOOR):** The red LED lamp is lit when the door is opened.

2. **Alarm indicator (ALARM):** The red LED lamp blinks during an alarm condition [page 28, 29].

3. **Temperature display:** Normally shows the present chamber temperature and during an alarm condition, shows a blinking chamber temperature, and an error code and chamber temperature are displayed alternately when the self-diagnostic function activates [page 29].

4. **Up arrow key (△):**
   - At “temperature display mode”; pressing this key for more than 5 seconds leads setting mode [page 21, page 23 to page 26].
   - At “setting mode”; changes number values between choices [page 21, page 23 to page 26].
   - At “setting of lock function”; selects ON-OFF of key lock for chamber temperature setting [page 20].

5. **Scroll key (▶):**
   - At “temperature display mode”; pressing this key for more than 5 seconds leads “setting of lock function” [page 20].
   - At “setting mode”; moves the operator through digit on the display.

6. **Set key (SET):**
   - At “temperature display mode”; pressing this key leads “chamber temperature setting mode”.
   - At “setting mode”; stores the value into computer memory.

7. **Buzzer stop key (BUZZER):** Mutes the audible alarm during alarm status (The remote alarm is also canceled).

   - The audible alarm recovers after certain period (suspended time) if the same alarm status continues [page 26].

   - “temperature display mode”: the status which the temperature display shows the current chamber temperature
   - “setting mode”: the status which the temperature display is ready to be entered after pressing the set key or up arrow key for 5 seconds.
1. **Glow starter** (covered with water-proof cover)
This is for the fluorescent lamp. It is recommended to replace the glow starter when the fluorescent lamp is replaced. Refer to page 32 for the replacement.

2. **Remote alarm terminal**
The remote alarm terminal is covered with terminal cover.
The alarm is relayed to a remote location when a remote alarm device (commercially available) is connected to the remote alarm terminal. Installation of a remote alarm device is recommended when the unit is installed in an unattended location so that the operator of the unit is notified of the alarm. Refer to page 27 for details.
INSTALLATION SITE

This unit must be installed in a location which meets all the conditions described below.

If the unit is installed in a location which does not meet the conditions, its specified performance may not be achieved or malfunctions and accidents may occur.

- **A location not exposed to direct sunlight**
  Avoid any location which is exposed to direct sunlight. Installing the unit in a location exposed to direct sunlight may reduce its cooling performance.

- **A well-ventilated (airy) location**
  In order to ensure ventilation, leave clearances of at least 10 cm around the unit (at the left, right, top and back). Blocking the ventilation may reduce the unit’s cooling performance or cause malfunctions.

- **A location away from sources of heat**
  Avoid any location which is close to a major source of heat (such as a heater or boiler). Installing the unit near a major source of heat may reduce the unit’s cooling performance.

- **A location with minimal changes in temperature**
  Avoid any location where the ambient temperature is subject to sudden changes. If the unit is installed in a location where the ambient temperature is subject to sudden changes, it will not be possible to achieve a stable cooling performance.

- **A flat surface where the floor is also capable of bearing the total combined weight (product + optional accessories + stored items)**
  Install the unit on a flat surface which is even and which is capable of bearing the total combined weight (product + optional accessories + stored items). If the unit is installed where the surface is uneven or where the unit will be inclined at an angle, the unit will be unstable, and accidents or injuries may occur and/or vibration or unnecessary noise may be generated.

- **A location with minimal humidity**
  Install the unit in a location where the relative humidity is less than 80 %R.H. Installing the unit in a very humid location may cause earth faults and/or electric shock.

- **A location free of flammable or corrosive gases**
  Avoid any location exposed to flammable or corrosive gases. Flammable or corrosive gases can cause explosions and/or a fire. Furthermore, corrosion of electrical parts may cause insulation to be reduced and result in earth faults and/or electric shock.

- **A location where nothing can fall onto the unit**
  Avoid locations where objects may fall onto the unit. Objects falling and hitting the unit may cause it to break down or fail.
1. Preparations after unpacking
Remove all the tape used to secure the doors and interior parts, and leave the doors open for a short while for ventilation.
If any surfaces of the outer cabinet are dirty, wipe the surface using a cloth moistened with a diluted neutral dish-washing detergent.
✧ Using an undiluted solution of detergent may cause the unit’s plastic areas to crack. Follow the directions on the detergent for details of dilution.
✧ After wiping the unit using the diluted detergent, be absolutely sure to wipe the surfaces with a cloth dipped in clean water to remove traces of the detergent. After this, be absolutely sure to wipe the surfaces with a dry cloth, allowing the surfaces of the outer cabinet to dry out completely, and then proceed with the installation.
**Note:**
Remove the cable tie that binds the power supply cord. Prolonged contact with the tie may cause corrosion of the cord coating.

2. Securing and levelling the unit using the levelling feet
Rotate the front levelling feet clockwise until the casters are raised 5 mm to 10 mm above the floor surface [Fig. 1].
In addition, rotate the levelling feet slightly clockwise or anticlockwise, and adjust them so that the unit is completely level.
✧ When the casters are raised from the floor surface, the unit will be secured. If they are left touching the floor, the unit may accidently move when its door is opened or closed.

3. Securing the unit by using the fixtures
Use the fixtures on the rear panel of the unit, and secure the unit to a wall with a strong rope or chain [Fig. 2].

4. Preventing electric shock by earthing the unit
When installing the unit, be absolutely sure to earth (ground) it. Earthing is necessary to prevent electric shocks resulting from deterioration of electrical insulations.
✧ This unit comes with a 3-pin plug having one earth pin. Earthing is not required in the case of a 3-pin power outlet equipped with an earth contact.
✧ If the power outlet is not a 3-pin outlet equipped with an earth contact, ask a qualified contractor to do the earthing work.
5. Setting up the shelves (MPR-722)

Four shelves are packaged at the bottom of the chamber. Set the shelves firmly in place on the shelf stoppers at the standard locations (4 locations) below.

1) The sixth hole under the second screw from the top (top screw) [Fig. 3]
2) The first hole under the fifth screw from the top.
3) The sixth hole under the seventh screw from the top
4) The first hole under the tenth screw from the top.

<Important>
Never put the stored item on the bottom of the chamber. Always put them on the shelf or in the drawer (in the case of MPR-722R).
START-UP PROCEDURE

Follow this procedure for the initial operation of the unit and for consequent operations (after temporary stoppage for cleaning, maintenance or moving).

After a power failure, the unit will restart operation automatically with the same settings as before the power failure [page 26].

1. Connect the power supply cord to the dedicated outlet with appropriate rating with the chamber empty.

   ► The alarm indicator and the chamber temperature may blink. And the buzzer may sound. In this case, stop the buzzer by pressing the buzzer stop key (BUZZER). (This is not a malfunction.)

   <Important>
   If the unit is unplugged or the power to the unit is interrupted, do not restart the unit for at least 5 minutes. This protects the compressor.
   
   Close the door securely. The door check indicator is lit when the door is open. The buzzer activates when the door is opened for more than two minutes. The buzzer is canceled when the door is closed.

2. Allow the chamber temperature to fall to 5 °C (The chamber temperature is set to 5 °C at the factory). Check the chamber temperature on the temperature display.

   ◇ Allow the chamber temperature to fall to the set temperature when the start-up after cleaning, maintenance or moving.

3. Switch on the light switch to check the fluorescent lamp is on. After checking, turn off the fluorescent lamp if the light is not necessary.

4. Set the desired chamber temperature [page 19].

5. When the chamber temperature gets to the set temperature, begin slowly placing items into the chamber to minimize the temperature rise.

   <Important>
   Always put the stored items on the shelf (MPR-722) or in the drawer (MPR-722R), not on the bottom of the chamber. Do not contact the stored items to the chamber walls.
   
   Do not block the air intake vent nor air exhaust vent. Place the stored items with adequate space between them to keep the cool air circulation.

   <Attention>
   The chamber temperature cannot be maintained due to the heat emission from the electrical equipment if any electrical equipment is used in the chamber. Refer to the table below when using any equipment.

   (ambient temperature; 35 °C)

<table>
<thead>
<tr>
<th>Heat load in chamber</th>
<th>Lowest chamber temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 W</td>
<td>2 °C</td>
</tr>
<tr>
<td>200 W</td>
<td>9 °C</td>
</tr>
<tr>
<td>300 W</td>
<td>18 °C</td>
</tr>
</tbody>
</table>
Do not place stored items so as to disrupt the air circulation in the chamber. Disruption of air circulation can cause the freezing of stored items or can impair the temperature distribution in the chamber.

Air intake vent
Do not block the air intake vent with the stored items. Care should be taken not to put any paper or plastic chips near the air intake vent. These may be sucked in and block the air intake vent.

Air exhaust vent
Do not block the air exhaust by the stored items near the air exhaust vent. Care should be taken not to place stored items near to the air exhaust vent. The stored items may become frozen when the refrigerator is operating at temperature settings lower than 5 °C.

Load line [see figure below]
The storage area is limited to ensure adequate air flow in the chamber. The label “load line” is attached to the right and left sides of the chamber. Always place stored items within the area limited by these labels.
SETTING THE CHAMBER TEMPERATURE

Set the chamber temperature according to the condition of use. This refrigerator can keep the stored items for long period under appropriate temperature.

- Setting range of chamber temperature: between 2 °C and 23 °C
- Initial setting (factory setting): 5 °C

<Important>
The chamber temperature lower than 3 °C may cause partial freeze of stored items.

Example: Change the chamber temperature to 4 °C from 5 °C

▶ Following shows a sample setting. Set the desired chamber temperature according to the condition of use.

<table>
<thead>
<tr>
<th>Operation</th>
<th>Key operated</th>
<th>Display after operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Connect the power supply plug to</td>
<td>-----</td>
<td>The current chamber temperature blinks.</td>
</tr>
<tr>
<td>the dedicated outlet. (only when</td>
<td></td>
<td></td>
</tr>
<tr>
<td>start-up of unit)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Press the “set” key.</td>
<td>SET</td>
<td>The current setting (005) is displayed and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>the first digit blinks.</td>
</tr>
<tr>
<td>3 Press the up arrow key and scroll</td>
<td>△</td>
<td>The display is changed to 004 from 005.</td>
</tr>
<tr>
<td>the figure to 4.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Press the “set” key.</td>
<td>SET</td>
<td>Set temperature is memorized and the current</td>
</tr>
<tr>
<td></td>
<td></td>
<td>chamber temperature blinks.</td>
</tr>
</tbody>
</table>

◇ The unit will return from setting mode to temperature display mode automatically after 90 seconds if no key is operated (auto-return function). In this case, the setting is not changed.

<Attention>
It is recommended to install a temperature recorder (optional component) to check the highest/lowest chamber temperature when the item which needs severe temperature control is stored.
The chamber temperature setting can be locked to avoid accidental changes. When the lock is ON, a change of chamber temperature setting is not accepted even if the key on the control panel is operated.

- Initial setting (factory setting): lock OFF

<table>
<thead>
<tr>
<th>Display</th>
<th>Lock status</th>
<th>Setting of chamber temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>L 0</td>
<td>Lock OFF</td>
<td>Enabled to change</td>
</tr>
<tr>
<td>L 1</td>
<td>Lock ON</td>
<td>Disabled from change</td>
</tr>
</tbody>
</table>

Example: Change the lock to ON from OFF (factory setting)

<table>
<thead>
<tr>
<th>Operation</th>
<th>Key operated</th>
<th>Display after operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Press the scroll key for 5 seconds.</td>
<td>▲</td>
<td>The current setting (L 0) is displayed and the first digit blinks.</td>
</tr>
<tr>
<td>2 Press the up arrow key once.</td>
<td>△</td>
<td>The display is changed to L 1 from L 0.</td>
</tr>
<tr>
<td>3 Press the “set” key.</td>
<td>SET</td>
<td>Lock status is memorized and the current chamber temperature is displayed.</td>
</tr>
</tbody>
</table>

▼ The unit will return from setting mode to temperature display mode automatically after 90 seconds if no key is operated (auto-return function). In this case, the setting is not changed.
The display mode of chamber temperature is selectable; integer display or decimal display. Select the display mode as required.

- Setting range of temperature display mode: integer mode (display: -50 to 50) or decimal display (display: -19.9 to 50.0)
- Initial setting (factory setting): integer display mode

In the case of decimal display mode, -19.9 is always displayed when the chamber temperature is lower than -19.9 °C.

Example: Change the mode to decimal display from integer display (factory setting)

<table>
<thead>
<tr>
<th>Operation</th>
<th>Key operated</th>
<th>Display after operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>——</td>
<td>The current chamber temperature is displayed.</td>
</tr>
<tr>
<td>2</td>
<td>△</td>
<td>F00 is displayed and the first digit blinks.</td>
</tr>
<tr>
<td>3</td>
<td>△</td>
<td>The display is changed to F08 from F00.</td>
</tr>
<tr>
<td>4</td>
<td>▽</td>
<td>The second digit blinks.</td>
</tr>
<tr>
<td>5</td>
<td>△</td>
<td>The display is changed to F18 from F08.</td>
</tr>
<tr>
<td>6</td>
<td>SET</td>
<td>The current setting (000) is displayed and the first digit blinks.</td>
</tr>
<tr>
<td>7</td>
<td>△</td>
<td>The display is changed to 001 from 000.</td>
</tr>
<tr>
<td>8</td>
<td>SET</td>
<td>The setting is memorized and the current chamber temperature is displayed with decimal mode.</td>
</tr>
</tbody>
</table>

The unit will return from setting mode to temperature display mode automatically after 90 seconds if no key is operated (auto-return function). In this case, the setting is not changed.

Note:
Set the figure to 000 in above procedure 7 when selecting the integer display mode.
The following 2 types of defrosting methods is provided for the refrigerator. Both of them are controlled automatically.

- **Cycle defrosting**
  The refrigerator temperature is kept stable by ON/OFF operation of the compressor. When the compressor is OFF (stopped), the frost on the evaporator is melted by the heater. This defrosting never influences to the refrigerator temperature.

- **Defrosting by defrost sensor**
  The cycle defrosting may not be sufficient to remove the frost on the evaporator when the ambient temperature is high, the door is opened frequently, or heavy moist items are stored in the refrigerator. In this case, the defrosting operation is started automatically when the defrost sensor detects the frost. During the defrosting, dF is displayed on the temperature display.
  After completion of defrosting, dF display is disappeared and the refrigerator returns to the normal operation.
  <Important>
  During the defrosting, the refrigerator temperature reaches around 10 °C temporary.

<Reference>
Too much frost is accumulated on the evaporator when the refrigerator is running under high temperature and humidity condition. For example, the defrosting operation is started once a week when the refrigerator is running with 2 °C setting at 35 °C, 80 %R.H.
SETTING THE ALARM TEMPERATURE

Setting the high-temperature alarm

An abnormality (chamber temperature rise) is indicated by the blinking of red LED lamp and the chamber temperature display and the buzzer sounding (15 minutes after blinking) if the chamber temperature exceeds the set value of the high-temperature alarm. Always set the high-temperature alarm to protect stored items from damage resulting from an increase in temperature.

- Setting range for high-temperature alarm:
  - between 2 °C and 14 °C higher than the chamber set temperature
- Initial setting (factory setting): 5 °C higher than the chamber set temperature

Example: Change the high temperature alarm to chamber temperature plus 3 °C from chamber temperature plus 5 °C

Following shows a sample setting. Set the desired high-temperature alarm according to the condition of use.

<table>
<thead>
<tr>
<th>Operation</th>
<th>Key operated</th>
<th>Display after operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ---</td>
<td>---</td>
<td>The current chamber temperature is displayed.</td>
</tr>
<tr>
<td>2 Press the up arrow key for 5 seconds.</td>
<td>△</td>
<td>F00 is displayed and the first digit blinks.</td>
</tr>
<tr>
<td>3 Press the up arrow key once.</td>
<td>△</td>
<td>The display is changed to F01 from F00.</td>
</tr>
<tr>
<td>4 Press the “set” key.</td>
<td>SET</td>
<td>The current setting (005) is displayed and the first digit blinks.</td>
</tr>
<tr>
<td>5 Press the up arrow key and scroll the figure to 3.</td>
<td>△</td>
<td>The display is changed to 003 from 005.</td>
</tr>
<tr>
<td>6 Press the “set” key.</td>
<td>SET</td>
<td>Set temperature is memorized and the current chamber temperature is displayed.</td>
</tr>
</tbody>
</table>

≈ The unit will return from setting mode to temperature display mode automatically after 90 seconds if no key is operated (auto-return function). In this case, the setting is not changed.

<Important>

The high temperature alarm may be activated after defrosting or a large amount of load is stored in the chamber. This is not a malfunction. The high temperature alarm is cancelled automatically when the chamber temperature reaches the set temperature.
Setting the low-temperature alarm

An abnormality (chamber temperature drop) is indicated by the blinking of red LED lamp and the chamber temperature display and the buzzer sounding (15 minutes after blinking) if the chamber temperature falls below the set value of low-temperature alarm. Always set the low-temperature alarm to protect stored items from damage resulting from a drop in temperature.

- Setting range for low-temperature alarm:
  - between 14 °C and 2 °C lower than the chamber set temperature
- Initial setting (factory setting): 5 °C lower than the chamber set temperature

Example: Change the low temperature alarm to chamber temperature minus 3 °C from chamber temperature minus 5 °C

Following shows a sample setting. Set the desired low-temperature alarm according to the condition of use.

<table>
<thead>
<tr>
<th>Operation</th>
<th>Key operated</th>
<th>Display after operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>-----</td>
<td>The current chamber temperature is displayed.</td>
</tr>
<tr>
<td>2</td>
<td>△ Press the up arrow key for 5 seconds.</td>
<td>F00 is displayed and the first digit blinks.</td>
</tr>
<tr>
<td>3</td>
<td>△ Press the up arrow key twice.</td>
<td>The display is changed to F02 from F00.</td>
</tr>
<tr>
<td>4</td>
<td>SET Press the “set” key.</td>
<td>The current setting (-05) is displayed and the first digit blinks.</td>
</tr>
<tr>
<td>5</td>
<td>△ Press the up arrow key and scroll the figure to 3.</td>
<td>The display is changed to -03 from -05.</td>
</tr>
<tr>
<td>6</td>
<td>SET Press the “set” key.</td>
<td>Set temperature is memorized and the current chamber temperature is displayed.</td>
</tr>
</tbody>
</table>

☆The unit will return from setting mode to temperature display mode automatically after 90 seconds if no key is operated (auto-return function). In this case, the setting is not changed.

<Important>

Regardless of the setting of low-temperature alarm, the alarm indicator and the temperature display blink and the buzzer operates if the chamber temperature is lower than 0 °C to prevent the stored items from freezing.
The door check indicator is lit when the door is opened, and the buzzer sounds with some delay to notice the door opening.

The delay time (between lighting of the door check indicator and activation of the buzzer) can be changed. Set an appropriate delay time according to the condition of use to prevent the rise of chamber temperature occurring as a result of the door being left open for too long.

- Setting range of delay time: between 1 and 15 minutes
- Initial setting (factory setting): 2 minutes

Example: Change the delay time to 3 minutes from 2 minutes

Following shows a sample setting. Set the desired delay time according to the condition of use.

<table>
<thead>
<tr>
<th>Operation</th>
<th>Key operated</th>
<th>Display after operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 -----</td>
<td>-----</td>
<td>The current chamber temperature is displayed.</td>
</tr>
<tr>
<td>2 Press the up arrow key for 5 seconds.</td>
<td>△</td>
<td>F00 is displayed and the first digit blinks.</td>
</tr>
<tr>
<td>3 Press the up arrow key 4 times.</td>
<td>△</td>
<td>The display is changed to F04 from F00.</td>
</tr>
<tr>
<td>4 Press the “set” key.</td>
<td>SET</td>
<td>The current setting (002) is displayed and the first digit blinks.</td>
</tr>
<tr>
<td>5 Press the up arrow key and scroll the figure to 3.</td>
<td>△</td>
<td>The display is changed to 003 from 002.</td>
</tr>
<tr>
<td>6 Press the “set” key.</td>
<td>SET</td>
<td>Delay time is memorized and the current chamber temperature is displayed.</td>
</tr>
</tbody>
</table>

The unit will return from setting mode to temperature display mode automatically after 90 seconds if no key is operated (auto-return function). In this case, the setting is not changed.
SETTING THE BUZZER SUSPENDED PERIOD

An abnormality is indicated again by the buzzer sounding after a certain period has elapsed (the buzzer recovery time) if the alarm mode continues even after the buzzer has already been silenced by pressing the buzzer stop key (BUZZER). Always set the “buzzer suspended period” to avoid incorrect recognition of alarm mode.

- Setting range of buzzer suspended period:
  - between 10 and 60 minutes in 10-minute intervals (display of setting: between 010 and 060) or no recovery (display of setting: 000)
- Initial setting (factory setting): 30 minutes (display of setting: 030)

The buzzer does not sound again when the setting is 000. However, the buzzer will operate if other alarm status is detected.

Example: Change the buzzer suspended time to 20 minutes from 30 minutes

Following shows a sample setting. Set the desired suspended time according to the condition of use.

<table>
<thead>
<tr>
<th>Operation</th>
<th>Key operated</th>
<th>Display after operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>-----</td>
<td>The current chamber temperature is displayed.</td>
</tr>
<tr>
<td>2</td>
<td>Press the up arrow key for 5 seconds.</td>
<td>△ F00 is displayed and the first digit blinks.</td>
</tr>
<tr>
<td>3</td>
<td>Press the up arrow key 5 times.</td>
<td>△ The display is changed to F05 from F00.</td>
</tr>
<tr>
<td>4</td>
<td>Press the scroll key once.</td>
<td>△ The second digit blinks.</td>
</tr>
<tr>
<td>5</td>
<td>Press the up arrow key twice.</td>
<td>△ The display is changed to F25 from F05.</td>
</tr>
<tr>
<td>6</td>
<td>Press the “set” key.</td>
<td>SET The current setting (030) is displayed and the second digit blinks.</td>
</tr>
<tr>
<td>7</td>
<td>Press the up arrow key and scroll the figure to 2.</td>
<td>△ The display is changed to 020 from 030.</td>
</tr>
<tr>
<td>8</td>
<td>Press the “set” key.</td>
<td>SET Suspended time is memorized and the current chamber temperature is displayed.</td>
</tr>
</tbody>
</table>

◊ The unit will return from setting mode to temperature display mode automatically after 90 seconds if no key is operated (auto-return function). In this case, the setting is not changed.
◊ The setting should be performed during normal operation, not during alarm status.

OPERATION CHECK AFTER RECOVERY

After recovery from a power failure, the unit will resume operation automatically with the setting before power failure. Accordingly, there is no need for re-set, however, always check the running status after recovery.
◊ The set value is memorized by nonvolatile memory during power failure.
The alarm status is noticed to a remote location when a remote alarm equipment (commercial item) is connected to the remote alarm terminal. It is recommended to install a remote alarm equipment (commercial item) when the refrigerator is installed in a desolate location so that an alarm status is noticed to an operator.

- Contact our representative or agent for the installation of a remote alarm equipment (commercial item).
  - Location of remote alarm terminal: inside the front cover [page 13]
  - Allowable contact capacity: DC 30 V, 2 A

<table>
<thead>
<tr>
<th>Connection</th>
<th>Normal status</th>
<th>Abnormal status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Between COM. and N.O.</td>
<td>open</td>
<td>closed</td>
</tr>
<tr>
<td>Between COM. and N.C.</td>
<td>closed</td>
<td>open</td>
</tr>
</tbody>
</table>

The alarm status of remote alarm terminal is cancelled by pressing the buzzer stop key (BUZZER) since the remote alarm is operated in conjunction with buzzer.
However, the alarm status of remote alarm terminal is not cancelled by pressing the buzzer stop key (BUZZER) when the unit is under power failure alarm (with MPR-48B1 installed).
The remote alarm terminal is in alarm status when the power supply cord is unplugged because it is regarded as a power failure.
- It is recommended to use cables with a maximum length of 30 meters.
- Use a shielded wire for the connection.

<Important>
Always cover the remote alarm terminal to prevent the electric shock.
**ALARM FUNCTIONS**

This unit has the alarms functions listed below.

Contact our sales representative or agent if the alarm is not resolved by eliminating the following causes. Before calling for service, take some precautions to prevent the stored items (for example by transferring the items to another freezer).

<table>
<thead>
<tr>
<th>Alarms</th>
<th>Cause</th>
<th>Indication</th>
<th>Buzzer</th>
<th>Remote alarm</th>
</tr>
</thead>
<tbody>
<tr>
<td>High-temperature alarm</td>
<td>The chamber temperature is higher than the setting of the high-temperature alarm. [page 23]</td>
<td>The alarm indicator blinks.</td>
<td>Intermittent tone with 15 minutes delay.</td>
<td>Alarm mode with 15 minutes delay.</td>
</tr>
<tr>
<td>Air circulation alarm</td>
<td>The chamber temperature distribution gets worse</td>
<td>The alarm indicator blinks.</td>
<td>Intermittent tone with 15 minutes delay.</td>
<td>Alarm mode with 15 minutes delay.</td>
</tr>
<tr>
<td>Low-temperature alarm</td>
<td>The chamber temperature is lower than the setting of the low-temperature alarm. [page 24]</td>
<td>The alarm indicator blinks.</td>
<td>Intermittent tone with 15 minutes delay.</td>
<td>Alarm mode with 15 minutes delay.</td>
</tr>
<tr>
<td>0 °C alarm</td>
<td>The chamber temperature is lower than 0 °C</td>
<td>The alarm indicator blinks.</td>
<td>Intermittent tone</td>
<td>Alarm mode.</td>
</tr>
<tr>
<td>Power failure alarm</td>
<td>A power failure has occurred. The power supply cord is disconnected.</td>
<td>-----</td>
<td>-----</td>
<td>Alarm mode.</td>
</tr>
<tr>
<td>Power failure alarm (with MPR-48B1)</td>
<td>A power failure has occurred. The power supply cord is disconnected.</td>
<td>The alarm indicator blinks.</td>
<td>Intermittent tone</td>
<td>Alarm mode.</td>
</tr>
<tr>
<td>Door alarm</td>
<td>The door is open.</td>
<td>The door check indicator blinks.</td>
<td>Intermittent tone with 2 minutes delay.</td>
<td>-----</td>
</tr>
</tbody>
</table>

่าThe alarm status of remote alarm terminal is cancelled by pressing the buzzer stop key (BUZZER) since the remote alarm is operated in conjunction with buzzer. (except for power failure alarm status)

### Air circulation alarm

The alarm indicator blinks and the buzzer sounds (after 15 minutes) when the sensor detects that the chamber temperature distribution is getting worse extremely. This may be caused by the block of cold air in the chamber due to the frost on the evaporator or stop of cooling fan motor.

่าThe air circulation is detected by the exclusive alarm sensor attached to the center of the chamber.

**SAFETY FUNCTIONS**

This unit has the safety functions listed below.

<table>
<thead>
<tr>
<th>Safety</th>
<th>Cause</th>
<th>Indication, Buzzer</th>
<th>Safety operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over-heat protection</td>
<td>When the chamber temp. is higher than about 30 °C.</td>
<td>-----</td>
<td>The heaters are OFF. Fan motor for cold air circulation is OFF and reset when the chamber temp. is lower than about 25 °C.</td>
</tr>
<tr>
<td>Over-cool protection</td>
<td>When the chamber temp. is lower than about -1 °C.</td>
<td>-----</td>
<td>Compressor is OFF and reset when the chamber temp. is higher than about 6 °C.</td>
</tr>
<tr>
<td>Auto-return</td>
<td>When there is no key pressing in setting mode for 90 seconds.</td>
<td>-----</td>
<td>Finishing of setting mode and returning to temp. display mode.</td>
</tr>
<tr>
<td>Key lock</td>
<td>When the key lock is ON (L1).</td>
<td>-----</td>
<td>Change of chamber temp. setting is disabled.</td>
</tr>
</tbody>
</table>
**SELF-DIAGNOSTIC FUNCTIONS**

Alarms involving an error code indicated on the temperature display are generated by the unit’s self-diagnostic function. If any of the error codes are displayed, contact our sales representative or agent without delay, report the error code, and request repairs.

<table>
<thead>
<tr>
<th>Self-diagnostic</th>
<th>Cause</th>
<th>Indication</th>
<th>Buzzer</th>
<th>Remote alarm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor abnormality</td>
<td>The thermal sensor is disconnected.</td>
<td>Alarm indicator blinks. E01 and -50 are displayed alternately.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The thermal sensor is short-circuited.</td>
<td>Alarm indicator blinks. E02 and 50 are displayed alternately.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The defrost sensor is disconnected.</td>
<td>Alarm indicator blinks. E03 and chamber temp. are displayed alternately.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The defrost sensor is short-circuited.</td>
<td>Alarm indicator blinks. E04 and chamber temp. are displayed alternately.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The compressor sensor is disconnected.</td>
<td>Alarm indicator blinks. E05 and chamber temp. are displayed alternately.</td>
<td>Intermittent tone</td>
<td>Alarm mode</td>
</tr>
<tr>
<td></td>
<td>The compressor sensor is short-circuited.</td>
<td>Alarm indicator blinks. E06 and chamber temp. are displayed alternately.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The ambient temperature sensor is disconnected.</td>
<td>Alarm indicator blinks. E07 and chamber temp. are displayed alternately.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The ambient temperature sensor is short-circuited.</td>
<td>Alarm indicator blinks. E08 and chamber temp. are displayed alternately.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The exclusive alarm sensor is disconnected.</td>
<td>Alarm indicator blinks. E13 and chamber temp. are displayed alternately.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The exclusive alarm sensor is short-circuited.</td>
<td>Alarm indicator blinks. E14 and chamber temp. are displayed alternately.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery switch check (with MPR-48B1)</td>
<td>When the battery switch is turned ON without setting after attachment.</td>
<td>E09 and chamber temp. are displayed alternately.</td>
<td>Intermittent tone</td>
<td>-----</td>
</tr>
<tr>
<td>Compressor temperature abnormality</td>
<td>The fan motor for cooling the compressor is faulty.</td>
<td>Alarm indicator blinks. E10 and chamber temp. are displayed alternately.</td>
<td>Intermittent tone</td>
<td>Alarm mode</td>
</tr>
<tr>
<td>Battery check (with MPR-48B1)</td>
<td>When about 3 years have passed with the power supply cord connected to the outlet. (time to replace the battery)</td>
<td>F-1 and chamber temp. are displayed alternately.</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>Fan motor check</td>
<td>When about 6 years have passed with the power supply cord connected to the outlet. (time to replace the fan motor)</td>
<td>F-2 and chamber temp. are displayed alternately.</td>
<td>-----</td>
<td>-----</td>
</tr>
</tbody>
</table>

✧ The alarm mode of remote alarm terminal is cancelled by pressing the buzzer stop key (BUZZER) since the remote alarm is operated in conjunction with buzzer. (except for power failure alarm status)
Cleaning of exterior, interior, and accessories

Use a dry cloth to wipe down the outside and inside of the unit and all accessories. If the outside panels are dirty, clean them with a diluted neutral dish-washing detergent. Wipe off condensation from the exterior of the cabinet or glass with a dry, soft cloth.

\(\star\) Using an undiluted solution of detergent may cause the unit’s plastic areas to crack. Follow the directions on the detergent for details of dilution.

\(\star\) After the wiping the cabinet or accessories with a diluted detergent, be absolutely sure to wipe the surfaces with a cloth dipped in clean water to remove traces of the detergent. After this, be absolutely sure to wipe the surfaces with a dry cloth.

<Important>
Never pour water onto or into the unit. This may cause electric shock or failure.

Do not use a brush, an acid, a thinner, laundry soap, a powder detergent, or boiling water for cleaning. These may cause damage to painted surfaces or cause perishing of plastic and rubber components. Moreover, do not wipe plastic and rubber components with a volatile material.

Cleaning of evaporating tray

This unit is provided with the evaporating tray on the back. The defrost water is collected in this tray and evaporated automatically. Clean the evaporating tray once a month. The cleaning procedure is as follows.

1. Remove four screws fixing the mounting bracket for the evaporating tray, and then remove the bracket and the evaporating tray.

2. Dispose the water in the evaporating tray.

3. Wash the evaporating tray and then wipe with a dry cloth.

4. Fix the evaporating tray with the mounting bracket and four screws.
Replacement of fluorescent lamp

Follow the procedure below when replacing a fluorescent lamp. The fluorescent lamp is located horizontally at upper front of the cabinet [Fig. 1].

It is recommended to replace a glow starter when replacing a fluorescent lamp.

1. Turn off the light switch and disconnect the power supply plug of the refrigerator.

2. Move the stored items on the top shelf (MPR-722) or in the top drawer (MPR-722R).

3. Pull the fluorescent lamp downwards from the stopper together with the lamp cover and wiring [Fig. 1].

4. Remove the water-proof cover with the wiring on the both sides of the lamp cover [Fig. 2].

5. Take out the fluorescent lamp and insert a new fluorescent lamp into the lamp cover.

6. Replace the water-proof cover on the both sides of the lamp cover and then replace the lamp cover to the stopper.

7. Replace the stored items on the top shelf or in the top drawer.

8. Connect the power supply cord to the outlet and turn on the light switch to check the lighting of fluorescent lamp.

<Important>
If the unit is unplugged or the power to the unit is interrupted, do not restart the unit for at least 5 minutes. This protects the compressor.
A glow starter is located inside the front cover [page 13].

1. Turn off the light switch and disconnect the power supply plug of the refrigerator.

2. Remove the water-proof cover and replace the glow starter.

3. Replace the water-proof cover.

4. Connect the power supply cord to the outlet and turn on the light switch to check the lighting of fluorescent lamp.

<Important>
If the unit is unplugged or the power to the unit is interrupted, do not restart the unit for at least 5 minutes. This protects the compressor.
# TROUBLESHOOTING

If the unit malfunctions, check out the following before calling for service.

<Attention>
If the malfunction is not resolved after checking the following items or if the malfunction is not shown in the table below, contact our sales representative or agent.

<table>
<thead>
<tr>
<th>Malfunction</th>
<th>Check/Remedy</th>
</tr>
</thead>
</table>
| Nothing operates even when the power supply plug is plugged in | □ The unit is not connected to the power supply properly.  
□ The capacity and voltage of power supply is not sufficient.  
□ There is a power failure.  
□ The circuit breaker on the supply circuit is activated.  
□ The fuse on the supply circuit is blown. |
| The alarm is activated at start-up | ✦ The alarm status is kept until the chamber temperature reaches the set temperature. |
| The alarm is activated during operation | □ The unit is not connected to the power supply properly.  
□ The capacity and voltage of power supply is not sufficient.  
□ There is a power failure.  
□ The circuit breaker on the supply circuit is activated.  
□ The fuse on the supply circuit is blown.  
□ The chamber temperature setting was changed.  
□ The door was kept opened for a long time.  
□ The containers of high temperature (load) were put in the chamber.  
□ The door is opened. |
| No key operation is available | □ The key lock is set in ON (L 1).  
→ Set the key lock in OFF (L 0). |
| During the setting mode, the mode returns to the temperature display mode | ✦ The setting mode returns to the temperature display mode automatically when 90 seconds has passed without any key operation (auto-return function). |
| Noisy | □ The floor is not sturdy.  
□ The installation site is not level.  
□ The refrigerator is tilted.  
□ The cabinet contacts the surrounding wall.  
□ The installation of the evaporating tray or unit cover is improper. |
| The chamber does not get cold enough | □ A large amount of items or warm product was put in the chamber.  
□ The door is frequently opened.  
□ The chamber temperature setting is high.  
□ The unit is in direct sunlight.  
□ The unit is not installed in the installation site specified in this manual.  
□ The ventilation around the unit is blocked.  
□ There is a nearby heat source.  
□ The ambient temperature is too high.  
→ The allowable ambient temperature is between -5 °C and 35 °C.  
□ The stored items is too much.  
□ The air exhaust vent is blocked up with containers.  
□ The access port is not covered.  
→ The access port should be covered with the insulation and rubber caps when no use.  
□ The door seal is damaged.  
→ If it is damaged, contact our sales representative or agent for replacement.  
□ Any foreign substance is located between door gaskets. |
WARNING
If the unit is to be stored unused in an unsupervised area for an extended period ensure that children do not have access and doors cannot be closed completely.
The disposal of the unit should be accomplished by appropriate personnel. Always remove doors to prevent accidents such as suffocation.

Decontamination of unit

Before disposal of unit with biohazardous danger, decontaminate the unit to the extent possible by the user.
Information on Disposal for Users of Waste Electrical & Electronic Equipment (private households)

This symbol on the products and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste. For proper treatment, recovery and recycling, please take these products to designated collection points, where they will be accepted on a free of charge basis. Alternatively, in some cases, you may be able to return your products to your local retailer upon the purchase of an equivalent new product.

Disposing of this product correctly will help to save valuable resources and prevent any potential negative effects on health and the environment which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

Information on Disposal in other Countries outside the European Union

If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

Benutzerinformationen zur Entsorgung von elektrischen und elektronischen Geräten (private Haushalte)

Dieses Symbol auf Produkten und/oder begleitenden Dokumenten bedeutet, dass verbrauchte elektrische und elektronische Produkte nicht mit gewöhnlichem Haushaltsabfall vermischt werden sollen.

Bringt Sie zu einer ordnungsgemäß Behandlung, Rückgewinnung und Recycling diese Produkte zu Ihren entsprechenden Sammelstellen, wo sie ohne Gebühren entgegengenommen werden. In einigen Ländern kann es auch möglich sein, diese Produkte beim Kauf eines entsprechenden neuen Produkts bei Ihrem örtlichen Einzelhändler abzugeben.

Die ordnungsgemäße Entsorgung dieses Produkts dient dem Umweltschutz und verhindert mögliche schädliche Auswirkungen auf Mensch und Umgebung, die aus einer unsachgemäßen Handhabung von Abfall entstehen können. Genauere Informationen zur nächstgelegenen Sammelstelle erhalten Sie bei Ihrem Gemeindeverwaltung.

Bei Übereinstimmung mit der Landesgesetzgebung können für die ordnungsgemäße Entsorgung dieser Art von Abfall Strafgebühren erhoben werden.

Für Geschäftskunden in der Europäischen Union

Bitte treten Sie mit Ihrem Händler oder Lieferanten in Kontakt, wenn Sie elektrische und elektronische Geräte entsorgen möchten. Er hält weitere Informationen für sie bereit.

Informationen zur Entsorgung in anderen Ländern außerhalb der Europäischen Union

Bitte treten Sie mit Ihrer Gemeindeverwaltung oder Ihrem Händler in Kontakt, wenn Sie elektrische und elektronische Geräte entsorgen möchten, und fragen Sie nach einer Entsorgungsmöglichkeit.

Täjekoztató az elektromos és elektronikus berendezések hulladékainak ártalmatlanításáról (háztartások)

Ha ez a szimbólum szerepel a termékeken és/vagy a mellékelt dokumentumokon, az elhanyagolt elektromos és elektronikus termékeket nem szabad keverni az általános háztartási szeméttel.

A megfelelő kezelés, visszanyerés és újrahasznosítás érdekében kérjük, szállítsák az ilyen termékeket a kijelölt gyűjtőhelyekre, ahol tételmentesen átvesszék azokat. Más lehetőségek között bizonyos országokban a termékeket a helyi kiskereskedésbe is visszahelyezhettek, ami mélyen hasznosított, új termékek vásárlására.

Az ártalmatlanítás megfelelő módszerével segít megőrizni az értékes erőforrásokat és megelőzheti a környezetére és az egészségre esetleg ártalmas hatásokat, amelyeket a hulladékok helytelen kezelése egyébként okozhat. Kérjük, lépjen kapcsolatba a helyi hatósággal, illetve kereskedőjével, és érdeklődjön az ártalmatlanítási megfelelő módszerek.

Указания для изъятия электрических и электронных отходов (для домашних пользователей)

Този символ върху изделия или в приложената документация означава, че електрически и електронни отпадъци не бива да се изхвърлят в обичен контейнер.

Моментално, по време на вторичния сурфинг, ще е прието безплатно, за попълване на обработването и рециклиране. В някои страни те могат да бъдат върнати на търговията да се превърне в дребно, от което са купени, среду закупуване на нови подобни изделия.

Правителството събиране и обработва на такива отпадъци и предотвратява забележително влияние, което иначе може да наближава към местните обреди.

Националните законодателства на някои страни предвиждат плата за неправилно изхвърляне на отпадъци.

Поредица от промишлени форми от Европейския съюз

Пълна информация за изхвърляне на електрически и електронни отпадъци може да получите от съответните доставчици или дилъри.

Засега за конкретни машини от Европейския съюз

Плътнорелеф за термополирените електрически и електронните съединения (окисна хетерогенеза)

Αυτή η σήμανση στη προϊόντα και/ή στα συνοδευτικά που της εντύπωση ότι οι κυκλοφορούν εφαρμογές και κατασκευασίες του προϊόντος με έναν συμβατικό ανθρώπιν ιατρικό περιοχής, θα γίνουν δεκτά κατά χρώμα χρώμα χρώμας σας. Εναλλακτικά, σε ερμηνευτικές χωρίς, μπορεί να επιτιμήσει την τροποποίηση της εφαρμογής και οπτικοακουστικά με σκοπό την αύξηση της χρώμας σας.

Προϊόντα επαγγελματικής χρήσης, Ευρωπαϊκή Ένωση

Αν επιθυμείτε να απορρίπτετε ηλεκτρικά και ηλεκτρονικά εξαρτήματα, επικοινωνήστε με τον πωλητή ή τον προμηθευτή για περιστερί απόστραφης.

Πληροφορίες για την απορρίψη ηλεκτρικών και ηλεκτρονικών συσκευών (εγκύης γιατροί)

En éliminant correctement ce produit, vous contribuerez à la conservation de nos ressources vitales et à la prévention des éventuels effets négatifs sur l'environnement et la santé humaine qui pourraient survenir dans le cas contraire.

Afin de connaître le point de collecte le plus proche, veuillez contacter vos autorités locales.

De la même façon, ce symbole figure sur les produits et/ou les documents qui les accompagnent, ce qui signifie que les appareils électriques ou électroniques ne doivent pas être jetés dès lors qu’ils sont à moitié ou à moitié usés.

Pour que ces produits soient soumis à un traitement, une récupération et un recyclage appropriés, envoyez-les dans les points de collecte désignés, où ils peuvent être déposés gratuitement. Dans certains pays, il est possible de renvier les produits au revendeur local ou dans un d’entre eux doublement.

En fin de compte, ce produit vous permet d’apporter un certain nombre d’économies sur les coûts de l’élimination, en même temps qu’il est soumis à une surveillance continue et régulière.
DISPOSAL OF UNIT

Oplysninger til brugerne om afhændelse af elektriske apparater og elektroniske udstyr (private husholdninger)

Når produktet, og/eller dertil indholdte dokumenter indeholder dette symbol, betyder det, at elektriske apparater og elektronisk udstyr ikke må smides ud sammen med det almindelige husholdningsaffald.

For at sikre en korrekt behandling, indsamling og genbrug, skal du allerede disse produkter på døde indrettede indsamlingssteder, hvor de vil blive modtaget uden ekstra omkostninger. I nogle lande er der også mulighed for, at du kan indlevere dine produkter hos den lokale forhandler, hvis du køber et nyt og tilsvarende produkt.

Hvis du afhænder dette produkt på korrekt vis, vil det være med at spare på de yderde naturelle råstoffer og forhindre eventuelle negative påvirkninger på folkesundheden og miljøet. Hvis det er muligt, skal du bruge det i en ny form, der forhinder afhændelse af affaldet. Kontakt de lokale myndigheder for at få yderligere oplysninger om, hvor du kan finde det nærmeste indsamplingssted.

I visse lande er en forkert afhændelse af affaldet medfører en bedrestaf ifenhed til de gældende bestemmelser på området.

Opinioni sullo smaltimento per i proprietari di apparecchi elettrici e elettronici (unità domestiche)

Il simbolo sulla confezione o nei documenti allegati ai prodotti elettrici e elettronici non deve essere smaltito con i rifiuti domestici.

Per assicurarsi di una attitudine corretta, è essenziale che le persone abbandonino questi prodotti a indirizzi di raccolta predisposti, dove saranno accettati senza costi aggiuntivi. In alcuni paesi esistono anche informazioni dettagliate sul punto di recupero designato più vicino. Per questo scopo, è possibile contattare le autorità locali, che forniscono informazioni dettagliate sulle modalità di smaltimento corretto.

Se desidera smaltire questi prodotti, è possibile contattare la società produttrice o il rivenditore per ottenere informazioni dettagliate.

La disposizione di questo simbolo su prodotti e/o documentazione connessa indica che i prodotti elettrici e elettronici usati non devono essere smaltiti con i rifiuti domestici.

Se questo prodotto viene smaltito in modo errato, può essere responsabile di sanzioni che possono variare in diversi paesi. Vi è anche disponibilità di informazioni dettagliate sulle modalità di smaltimento corretto.

Informação sobre a eliminação para os proprietários e aparafusadores em casa (só para consumidores particulares)

Se um produto possuir este símbolo, não deve ser descartado com os resíduos domésticos.

Para eliminar corretamente este produto, é importante que você faça o descarte em um ponto de coleta designado, onde ele será aceito gratuitamente. Além disso, em alguns países, é possível obter informações detalhadas sobre o ponto de coleta mais próximo.

Se deseja eliminar este produto, é recomendável entrar em contato com as autoridades locais ou o revendedor.

A aparição deste símbolo em um produto e/ou na documentação adjunta indica que os produtos elétricos e electrónicos usados não devem ser eliminados juntamente com os resíduos domésticos.

Para evitar danos ao ambiente, é importante que o produto seja descartado corretamente em um ponto de coleta designado. Em alguns casos, é possível obter informações detalhadas sobre o ponto de coleta mais próximo.

Se deseja eliminar este produto, é recomendável entrar em contato com as autoridades locais ou o revendedor.

Información sobre la eliminación en otros países no pertenecientes a la Unión Europea

Hvis du ønsker at afhænde elektriske apparater eller elektronisk udstyr ud, skal du kontakte din forhandler eller leverandør for at få yderligere oplysninger.

Oplysninger om afhændelse i lande uden for EU

Hvis u ønsker at afhænde elektriske apparater eller elektronisk udstyr ud, skal du kontakte din forhandler eller leverandør for at få yderligere oplysninger.

Información sobre la eliminación en otros países no pertenecientes a la Unión Europea

Hvis du ønsker at afhænde elektriske apparater eller elektronisk udstyr ud, skal du kontakte din forhandler eller leverandør for at få yderligere oplysninger.

Informações para os proprietários de produtos elétricos e eletrônicos usados (particulares)

Se um produto possuir este símbolo, não deve ser descartado com os resíduos domésticos.

Para eliminar corretamente este produto, é importante que você faça o descarte em um ponto de coleta designado, onde ele será aceito gratuitamente. Além disso, em alguns países, é possível obter informações detalhadas sobre o ponto de coleta mais próximo.

Se deseja eliminar este produto, é recomendável entrar em contato com as autoridades locais ou o revendedor.

A aparção deste símbolo em um produto e/ou na documentação adjunta indica que os produtos elétricos e electrónicos usados não devem ser eliminados juntamente com os resíduos domésticos.

Para evitar danos ao ambiente, é importante que o produto seja descartado corretamente em um ponto de coleta designado. Em alguns casos, é possível obter informações detalhadas sobre o ponto de coleta mais próximo.

Se deseja eliminar este produto, é recomendável entrar em contato com as autoridades locais ou o revendedor.

Informação sobre a eliminação de esmagamentos de Esteletricidade e eletrônica usada (particulares)

Se um produto possui este símbolo, não deve ser descartado com os resíduos domésticos.

Para eliminar corretamente este produto, é importante que você faça o descarte em um ponto de coleta designado, onde ele será aceito gratuitamente. Além disso, em alguns países, é possível obter informações detalhadas sobre o ponto de coleta mais próximo.

Se deseja eliminar este produto, é recomendável entrar em contato com as autoridades locais ou o revendedor.

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Para evitar danos ao ambiente, é importante que o produto seja descartado corretamente em um ponto de coleta designado. Em alguns casos, é possível obter informações detalhadas sobre o ponto de coleta mais próximo.

Se deseja eliminar este produto, é recomendável entrar em contato com as autoridades locais ou o revendedor.
Informacje dla użytkowników w unijnych państwach

Chcąc likwidować ten produkt, skontaktuj się z.Points of Collection dla najbardziej odpowiedniego punktu.

Informacje o recyklingu w innym kraju niż Unia Europejska

Informacje o likwidacji urządzeń elektrycznych i elektronicznych w innych krajach

Informacje o przetwarzaniu, modyfikowaniu, zastosowaniu, utylizacji, likwidacji, usuwaniu, umieszczaniu, składowaniu, transportowaniu, przenoszeniu, przygotowaniu w związku z przetwarzaniem, modyfikowaniem, zastosowaniem, utylizacją, likwidacją, usuwaniem, umieszczaniem, składowaniem, transportowaniu, przenoszeniu, przygotowaniu.

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Informacije o odstranitvi v drugih državah, ki so izven Evropske Unije

Če želite znebiti električne in elektronske izdelke, so v vaši lokalni oblasti ali prodaja priporočljivo uporabiti splošne kemodobne zbirne točke.

Informacije za uporabnike o odstranitvi odpadne električne in elettronike (per i nuclei familiari privati)

Informacije za uporabnike o odstranitvi odpadne električne in elettronike (per i nuclei familiari privati)

Informacije o odstranitvi v drugih državah, ki so izven Evropske Unije

Simbol je veljaven samo v Evropski Uniji. Če želite znebiti tvegodne odpadke, jih morate vključiti v vhodnico izdelka, ki se znaša neprimerni, prej protipotezneg izdelka.

Informacije za uporabnike v Evropski Uniji

Informacije o odstranitvi v drugih državah, ki so izven Evropske Unije

Informacije o odstranitvi v drugih državah, ki so izven Evropske Unije

Informacije za uporabnike v Evropski Uniji

Informacije o odstranitvi v drugih državah, ki so izven Evropske Unije

Informacije o odstranitvi v drugih državah, ki so izven Evropske Unije

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Informacije o odstranitvi v drugih državah, ki so izven Evropske Unije
TEMPERATURE RECORDER (OPTION)

The chamber temperature can be recorded and checked by installing an optional temperature recorder (MTR-G04 or MTR-0621LH).

✧ Contact our sales representative or agent for the purchase of temperature recorder.

<table>
<thead>
<tr>
<th>Main specifications of temperature recorder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application</td>
</tr>
<tr>
<td>Reporting range</td>
</tr>
<tr>
<td>Feed speed of recorder chart</td>
</tr>
<tr>
<td>Recorder chart</td>
</tr>
<tr>
<td>Power source</td>
</tr>
</tbody>
</table>

✧ For the installation of temperature recorder MTR-G04, the recorder mounting bracket MPR-S7 is necessary.

✧ For the installation of temperature recorder MTR-0621LH, the recorder mounting bracket MPR-S30 is necessary.

BATTERY MOUNTING BOX (OPTION)

It is recommended to install an optional battery mounting box (MPR-48B1) to prevent the rise of chamber temperature in the case of power failure. At the power failure, the alarm activates to prompt an action for preventing the storage items.

✧ Contact our sales representative or agent for the purchase of battery mounting box.

INTERFACE BOARD (OPTION)

Two kinds of interface board are available as an optional component. MTR-480 has a connector for RS232C and a connector for RS485. MTR-L03 has a connector for LAN.

✧ The interface board (MTR-480) and interface board (MTR-L03) cannot be used at the same time.

✧ Contact our sales representative or agent for the purchase of interface board.
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Product name</th>
<th>Pharmaceutical Refrigerator</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MPR-722</td>
</tr>
<tr>
<td></td>
<td>MPR-722R</td>
</tr>
<tr>
<td>External dimensions</td>
<td>W770 mm x D830 mm + (90) mm x H1955 mm</td>
</tr>
<tr>
<td>Internal dimensions</td>
<td>W650 mm x D710 mm x H1500 mm</td>
</tr>
<tr>
<td>Effective capacity</td>
<td>684 L</td>
</tr>
<tr>
<td></td>
<td>671 L</td>
</tr>
<tr>
<td>Exterior</td>
<td>Painted steel</td>
</tr>
<tr>
<td>Interior</td>
<td>Painted steel</td>
</tr>
<tr>
<td>Door</td>
<td>Painted steel, Provided with glass window</td>
</tr>
<tr>
<td></td>
<td>Glass: 2-layer pair glass with heat ray reflection film</td>
</tr>
<tr>
<td>Insulation</td>
<td>Rigid polyurethane foamed-in place</td>
</tr>
<tr>
<td>Shelves</td>
<td>Hard steel wire on polyethylene coating x 4, Allowable load; 50 kg/shelf</td>
</tr>
<tr>
<td></td>
<td>Inner dimensions; W565 mm x D604 mm</td>
</tr>
<tr>
<td>Drawers</td>
<td>Painted steel x 5</td>
</tr>
<tr>
<td></td>
<td>Allowable load; 40 kg/drawer</td>
</tr>
<tr>
<td></td>
<td>Inner dimensions; W550 mm x D530 mm x H100 mm</td>
</tr>
<tr>
<td>Access port</td>
<td>Inner diameter; 30 mm, Left side, Right side, Top</td>
</tr>
<tr>
<td>Cooling method</td>
<td>Forced cool air circulation</td>
</tr>
<tr>
<td>Compressor</td>
<td>Hermetic type, Output; 200 W x 1</td>
</tr>
<tr>
<td>Evaporator</td>
<td>Fin and tube type</td>
</tr>
<tr>
<td>Condenser</td>
<td>Wire and tube type</td>
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<tr>
<td>Refrigerant</td>
<td>R-513A</td>
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<tr>
<td>Defrosting</td>
<td>Cycle defrost + forced defrost</td>
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<tr>
<td>Defrost heater</td>
<td>100 W</td>
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<tr>
<td>Temperature controller</td>
<td>ON/OFF control</td>
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<tr>
<td>Temperature display</td>
<td>Digital display (in 1 °C, 0.1 °C increments)</td>
</tr>
<tr>
<td>Fluorescent lamp</td>
<td>FL20SD (FL20SSECW for MPR-722-PE and MPR-722RPE)</td>
</tr>
<tr>
<td>Alarms</td>
<td>High-temp. alarm, Low-temp. alarm, 0 °C alarm, Air circulation alarm, Door alarm</td>
</tr>
<tr>
<td>Remote alarm contact</td>
<td>Allowable contact capacity: DC 30 V, 2 A *</td>
</tr>
<tr>
<td>Weight</td>
<td>174 kg</td>
</tr>
<tr>
<td></td>
<td>193 kg</td>
</tr>
<tr>
<td>Accessories</td>
<td>2 keys, 2 nylon clips, 2 binders</td>
</tr>
<tr>
<td>Optional components</td>
<td>Temperature recorder (MTR-G04, MTR-0621LH)</td>
</tr>
<tr>
<td></td>
<td>Recorder mounting bracket (MTR-S7, MTR-S30)</td>
</tr>
<tr>
<td></td>
<td>Interface board (MTR-480, MTR-L03)*</td>
</tr>
<tr>
<td></td>
<td>Battery mounting box (MTR-48B1)</td>
</tr>
<tr>
<td></td>
<td>Light shielding plate (MPR-72BP)</td>
</tr>
</tbody>
</table>

- Design or specifications will be subject to change without notice.
- The dimension in ( ) shows the projected dimension.
- Refer to the updated catalog when ordering an optional component.
- * It is recommended to use cables with a maximum length of 30 meters.
### PERFORMANCE

<table>
<thead>
<tr>
<th>Product name</th>
<th>Pharmaceutical Refrigerator</th>
<th>MPR-722</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model number</td>
<td>MPR-722-PA</td>
<td>MPR-722-PR</td>
</tr>
<tr>
<td>Temperature control range</td>
<td>2 °C to 14 °C (ambient temperature; -5 °C to 0 °C, no load)</td>
<td>2 °C to 33 °C (ambient temperature; 0 °C to 35 °C, no load)</td>
</tr>
<tr>
<td>Noise level</td>
<td>48 dB (A scale)</td>
<td></td>
</tr>
<tr>
<td>Maximum pressure</td>
<td>1516 kPa</td>
<td></td>
</tr>
<tr>
<td>Rated voltage</td>
<td>AC 115 V</td>
<td>AC 220 V</td>
</tr>
<tr>
<td>Rated frequency</td>
<td>60 Hz</td>
<td>60 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>400 W</td>
<td>500 W</td>
</tr>
<tr>
<td>Usable ambient condition</td>
<td>Temperature: -5 °C to 35 °C, Humidity: equal or less than 80 %R.H.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product name</th>
<th>Pharmaceutical Refrigerator</th>
<th>MPR-722R</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model number</td>
<td>MPR-722R-PA</td>
<td>MPR-722R-PR</td>
</tr>
<tr>
<td>Temperature control range</td>
<td>2 °C to 14 °C (ambient temperature; -5 °C to 0 °C, no load)</td>
<td>2 °C to 23 °C (ambient temperature; 0 °C to 35 °C, no load)</td>
</tr>
<tr>
<td>Noise level</td>
<td>48 dB (A scale)</td>
<td></td>
</tr>
<tr>
<td>Maximum pressure</td>
<td>1516 kPa</td>
<td></td>
</tr>
<tr>
<td>Rated voltage</td>
<td>AC 115 V</td>
<td>AC 220 V</td>
</tr>
<tr>
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<td>60 Hz</td>
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<tr>
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<tr>
<td>Usable ambient condition</td>
<td>Temperature: -5 °C to 35 °C, Humidity: equal or less than 80 %R.H.</td>
<td></td>
</tr>
</tbody>
</table>

◇ The above data is measured based on our internal basis.
◇ Design or specifications will be subject to change without notice.
◇ The unit with CE mark complies with EU directives.
CAUTION
Please fill in this form before servicing.
Hand over this form to the service engineer to keep for his and your safety.

Safety check sheet

1. Unit contents:
   Risk of infection: □Yes □No
   Risk of toxicity: □Yes □No
   Risk from radioactive sources: □Yes □No

   (List all potentially hazardous materials that have been stored in this unit.)
   Notes:

2. Contamination of the unit:
   Unit interior:
   No contamination: □Yes □No
   Decontaminated: □Yes □No
   Contaminated: □Yes □No
   Others:

3. Instructions for safe repair/maintenance/disposal of the unit
   a) The unit is safe to work on □Yes □No
   b) There is some danger (see below) □Yes □No

   Procedure to be adhered to in order to reduce safety risk indicated in b) below.

Date:
Signature:
Address, Division:
Telephone:

Product name: Pharmaceutical Refrigerator
Model: MPR-
Serial number: Date of Installation:

Please decontaminate the unit yourself before calling the service engineer.