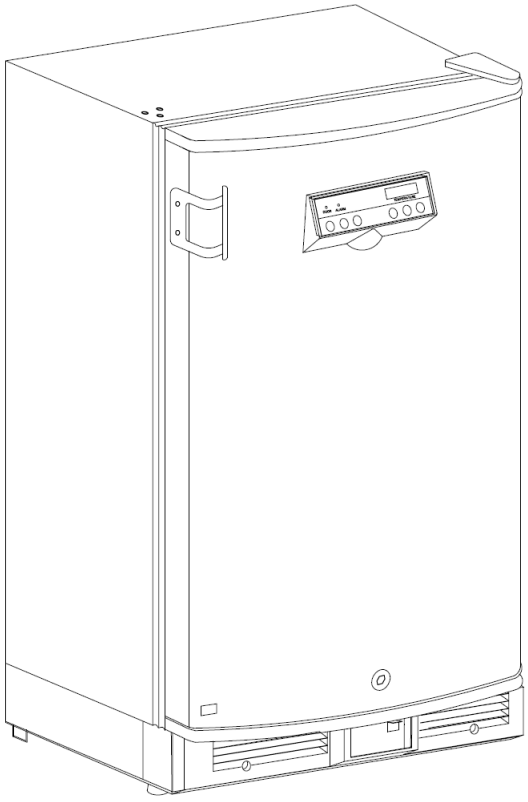
Panasonic

Operating Instructions

Laboratory Freezer

SF-L6111W



SF-L6111W

Please read these instructions carefully before using this product, and save this manual for future use.

See page 18 for all Model No.

English

Note:

1. No part of this manual may be reproduced in any form without the express written permission of our company.

2. The contents of this manual are subject to change without notice.

3. Please contact our company if any point in this manual is unclear or if there are any inaccuracies.

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PRECAUTIONS FOR SAFE OPERATION

It is imperative that the user complies with this manual as it contains important safety advice.

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

Precautions are illustrated in the following way:

⚠WARNING

Failure to observe WARNING signs could result in a hazard to personnel possibly resulting 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.

Symbol shows;

△ this symbol means caution.

⃠ this symbol means an action is prohibited.

● this symbol means an instruction must be followed.

Be sure to keep this manual in a place accessible to users of this unit.



< Label on the unit >
This mark is labeled on the cover in which the electrical components of high voltage are enclosed to prevent electric shock.
The cover should be removed by qualified engineers or service personnel only.

PRECAUTIONS FOR SAFE OPERATION

⚠WARNING

Do not use the unit outdoors. Current leakage or electric shock may result if the unit is exposed to rain water.

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

Be sure to install the unit on a sturdy floor. If the floor is not strong enough or the installation site is not adequate, injury may result from the unit falling or tipping over.

Never install the unit in a humid place or a place where it is likely to be splashed by water. Deterioration of the insulation may result which could cause current leakage or electric shock.

Never install the unit in a flammable or volatile location. This may cause explosion or fire.

Never install the unit where acid or corrosive gases are present as current leakage or electric shock may result due to corrosion.

Make sure a dedicated power source is used as indicated on the rating label attached to the unit.

Make sure to remove dust from the power supply plug before inserting in a power source. A dusty plug or improper insertion may pose a hazard.

Use a power supply outlet with ground (earth) to prevent electric shock. If the power supply outlet is not grounded, it will be necessary to have qualified engineers install a ground.

Never ground the unit through a gas pipe, water main, telephone line or lightning rod. Such grounding may cause electric shock in the case of an incomplete circuit.

Do not insert metal objects such as a pin or a wire into any vent, gap or any outlet for inner air circulation. This may cause electric shock or injury by accidental contact with moving parts.

Never store volatile or flammable substances in this unit. This may cause explosion or fire.

Never store corrosive substances in this unit. This may lead to damage to the inner components or electric parts.

If this unit is to be used for storing poisons, radioactive material or other harmful products, ensure that it is in a safe area. Failure to do so may lead to an adverse effect on the health of personnel in the area and the local environment. In this case, a request for repair or maintenance will necessitate a safety check sheet for maintenance personnel.

PRECAUTIONS FOR SAFE OPERATION

⚠WARNING

Always disconnect the power supply to the unit prior to any repair or maintenance of the unit in order to prevent electric shock or injury.

Ensure you do not inhale or consume medication or aerosols from around the unit at the time of maintenance. These may be harmful to your health.

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

Never disassemble, repair, or modify the unit yourself. Any such work carried out by an unauthorized person may result in fire or injury due to a malfunction.

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

If the unit is to be stored unused in an unsupervised area for an extended period, **ensure that children do not have access and that 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.

Make sure to prepare a safety check sheet when you request any repair or maintenance for the safety of service personnel.

Select a level and sturdy floor for installation. This precaution will prevent the unit from tipping. Improper installation may result in water spillage or injury from the unit tipping over.

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.

When removing the plug from the power supply outlet, grip the power supply plug, not the cord. Pulling the cord may result in electric shock or fire by short circuit.

Never damage or break the power supply plug or cord. Do not use the supply plug if its cord is loose. This may cause fire or electric shock.

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

PRECAUTIONS FOR SAFE OPERATION

⚠CAUTION

Do not climb onto the unit or do not put articles on the unit. This may cause injury by tipping or damage to the unit.

Do not store bottle or cans in the refrigerator. This may cause injury by broken of containers due to the frozen.

Do not touch any stock (especially metal objects) in the refrigerator with a wet hand. This may cause frostbite.

Always hold the handle when closing the door. This will reduce the likelihood of a trapped finger.

Do not lean on the door. This may cause injury if the unit tips over.

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

Dispose of water in the evaporation tray completely prior to the movement. Spilled water or splashed water may cause current leakage or electric shock.

Be careful not to tip over the unit during movement to prevent damage or injury.

Always disconnect the power plug when the unit is not used for long periods.

Make sure to check the setting value when starting up the operation after the power failure or power off. A change of setting value may cause damage to contents.

Do not put the packing plastic bag within reach of children as suffocation may result

CAUTIONS FOR USAGE

1. 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.

2. This inner cabinet is refrigerated by the forced circulation of cooled air inside the chamber. Ensure that the intake and exhaust vents are not blocked. Adequate space should be provided between the items inside the unit to allow air circulation.

3. Never store corrosive materials such as acid or alkali unless the container is completely sealed up. Corrosion may lead to failure of the unit in time.

4. Once the chamber temperature has stabilized, put the items into the chamber in small batches to minimize the temperature increase.

5. Place items on the shelves and leave a space between the walls of the cabinet and the contents to allow air circulation.

6. Always close the door firmly. The door check lamp is lit when the door is open. The alarm buzzer sounds after two minutes the door is kept open. The buzzer can be canceled automatically when the door is closed.

7. Always open and close the door gently. Rough operation may lead to stored items falling down, incomplete closing, or damage of door gasket.

8. Do not let items contact the wall.

9. If an instrument requiring a power source is to be placed inside the cabinet, the cable can be led through the access port on the right side of the cabinet. After using the port, the rubber cap and insulation should be replaced to seal the access port. Failure to do this can affect the temperature uniformity inside the cabinet and lead to condensation on the outside of the access port.

10. Do not clean the unit with scrubbing brushes, acid, thinner, solvents powdered soap, cleanser or hot water. These agents can scratch the paint or cause it to peel. Plastic and rubber parts can be easily damaged by these materials. Especially never use any volatile solvent to clean the plastic or rubber parts. When a neutral dishwashing detergent is used to clean the unit, wipe it up thoroughly with a cloth soaked in clean water.

11. If condensation forms on the door or frame surface, wipe it off with a dry soft cloth.

12. The heat discharge pipe is attached inside of the both side & rear frame. The frame sometimes gets hot at the start-up of the operation, but this does not mean that a malfunction has occurred.

ENVIRONMENTAL CONDITIONS

This equipment is designed to be safe at least under the following conditions:

1. Indoor use;

2. Altitude up to 2000 m;

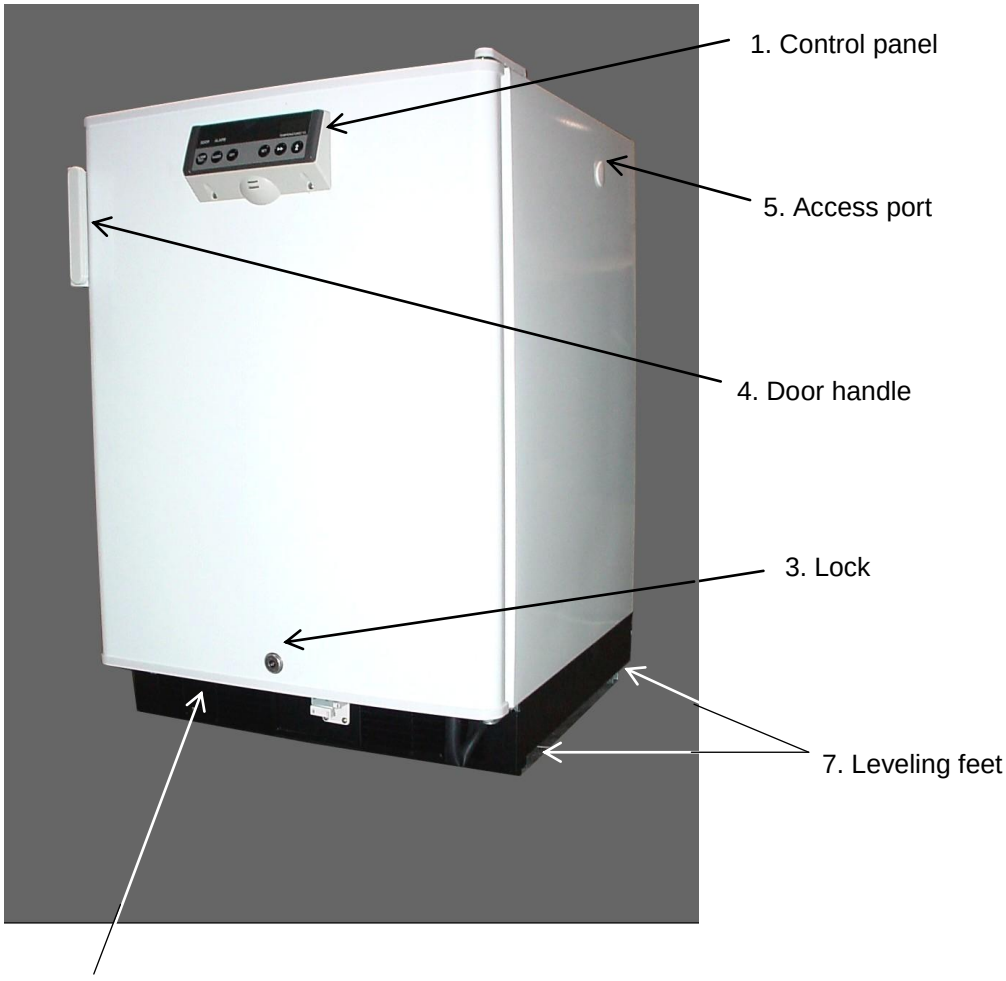
3. Ambient temperature 15^{o}C to 26^{o}C;

4. Maximum relative humidity 75% for temperature up to 26^{o}C;

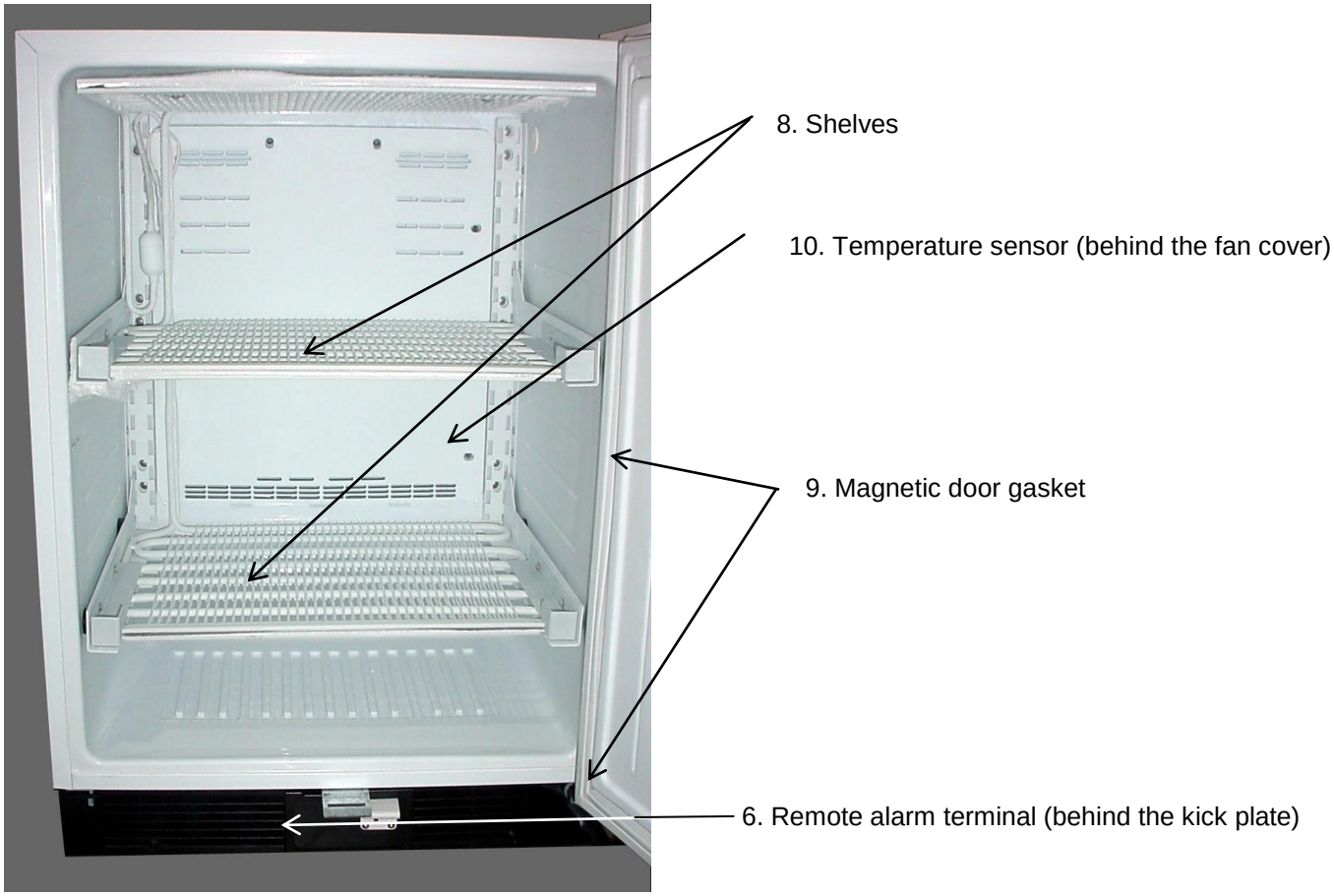
5. Main supply voltage fluctuations not to exceed ±10% of the nominal voltage;

6. Other supply voltage fluctuations as stated by the manufacturer;

FREEZER COMPONENTS



FREEZER COMPONENTS



1. **Control panel:** The operation status is displayed on this panel; temperature setting is also available. Refer to page 10 for details.

2. **Air intake vent:** Ensure this vent is never blocked. Failure to do so will result in unstable temperature distribution in the freezer.

3. **Lock:** Turn the key clockwise through 180 degrees to lock the door.

4. **Door handle:** Always hold the handle when opening or closing the door.

5. **Access port:** This port allows cables to be passed into the cabinet.

6. **Remote alarm terminal:** This may be used to trip an alarm if unit is switched off, unplugged or power to unit is otherwise cut. See page 14.

7. **Leveling feet:** Use these to adjust the height and level the unit for installation.

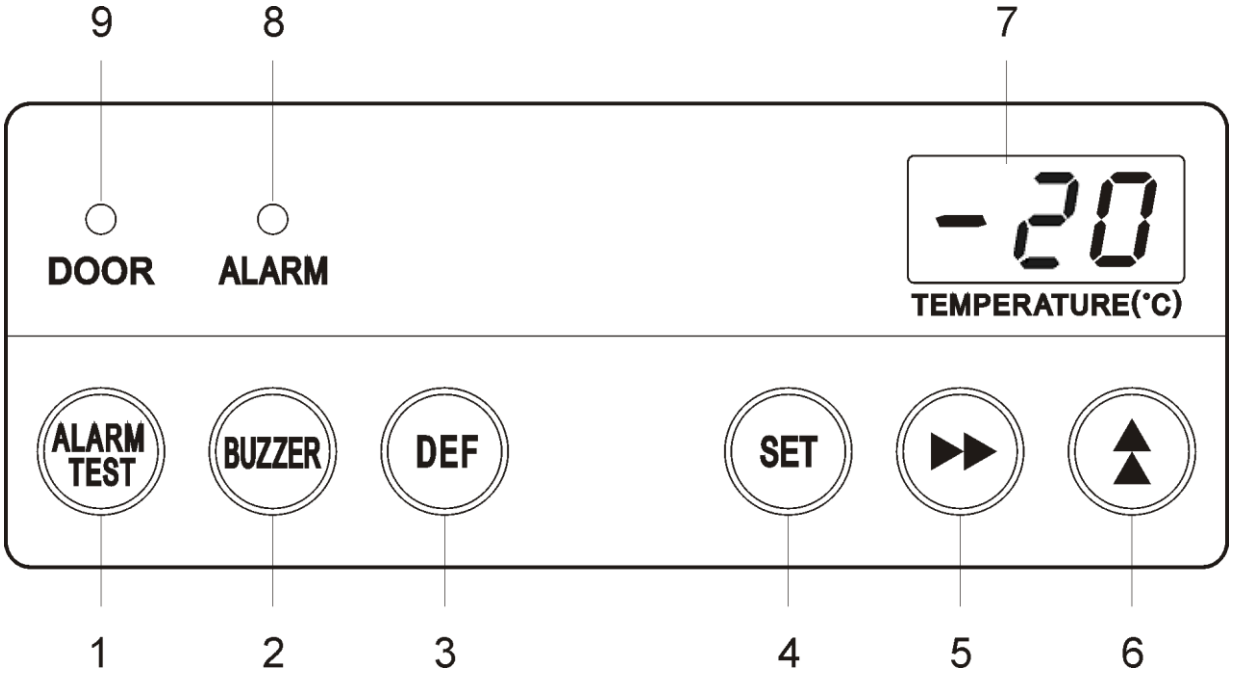
8. **Shelf:** Items to be stored in the chamber must be placed on the shelves. The maximum storage weight for each shelf is 28kg. Do not place stored items directly onto the interior floor of the chamber.

9. **Magnetic door gasket:** This prevents cold air from escaping. Always keep clean.

10. **Temperature sensor:** Located on the rear of the chamber, behind the fan cover.

FREEZER COMPONENTS

Control panel



1. **Alarm test key (ALARM TEST):** Buzzer will sound and remote alarm will be activated by pressing this key. Pressing this key second time will deactivate the alarm.

2. **Alarm buzzer stop key (BUZZER):** Press this key to silence the buzzer in the event that the alarm operates and buzzer sounds. See page 15 for details.

3. **Defrost key (DEF):** Defrost will be started by pressing this key for more than 5 seconds.

4. **Set key (SET):** Pressing this key activates temperature set mode and the digit that can be set is flashed. By pressing the key again after setting, the set value is accepted.

5. **Digit shift key (▶▶):** Pressing this key in set mode causes the changeable digits to move. Key lock is activated by pressing this key for more than 5 seconds in the temperature display mode. See “Key lock operation” on page 14.

6. **Numerical value shift key (▲):** Pressing this up arrow key in the setting mode causes the numerical value to change. “ON-OFF” of key lock can be selected by pressing this key in the key lock mode.

7. **Temperature display:** This indicator shows the chamber temperature, set temperature, or error code.

8. **Alarm lamp (ALARM):** This lamp flashes during alarm condition.

9. **Door check lamp (DOOR):** This lamp is lit when the door is open.

INSTALLATION

Installation site

To operate this unit properly and to obtain maximum performance, install the unit in a location with the following conditions:

1. **A location not subjected to direct sunlight**
   Installation in a location subjected to direct sunlight might lead to inadequate cooling.

2. **A location with adequate ventilation**
   Always keep in front of air intake and exhaust area open for free air circulation. Poor ventilation will result in inadequate cooling.

3. **A location away from heat generating sources**
   Avoid installing the unit near heat-emitting appliances such as gas ranges or stoves.

4. **A location with a sturdy and level floor**
   Install the unit on a sturdy floor to avoid vibration and noise. Placing the unit on an unsteady floor may cause vibration and noise.

> ⚠ **WARNING**
>
> **Be sure to install the unit on a sturdy floor.** If the floor is not strong enough or the installation site is not adequate, this may result in injury from the unit falling or tipping over.

> ⚠ **CAUTION**
>
> **Select a level and sturdy floor for installation.** This precaution will prevent the unit from tipping. Improper installation may result in water spillage or injury from the unit tipping over.

5. **A location not prone to high humidity**

> ⚠ **WARNING**
>
> **Do not use the unit outdoors.** Current leakage or electric shock may result if the unit is exposed to rain water.
> **Never install the unit in a humid place or a place where it is likely to be splashed by water.** Deterioration of the insulation may result which could cause current leakage or electric shock.
> **Do not install the unit under water pipes or steam pipes.** Deterioration of the insulation may result which could cause current leakage or electric shock.

6. **A location without a flammable or corrosive gas**
   Avoid placing the unit where chemicals are stored or gases are produced. Also avoid areas where there is a great deal of dust.

> ⚠ **WARNING**
>
> **Never install the unit in a flammable or volatile location.** This may cause explosion or fire.
> **Never install the unit where acid or corrosive gases are present** as current leakage or electric shock may result due to corrosion.

INSTALLATION

Installation

1. **Remove the packaging materials and tapes.** Remove all transportation packaging materials and tapes. Open the doors and ventilate the unit. If the outside panels are dirty, clean them with a diluted neutral dishwashing detergent. (Undiluted detergent can damage the plastic components. For the dilution, refer to the instruction of the detergent.) After cleaning with the diluted detergent, always wipe it off with a wet cloth, and then wipe the panels with a dry cloth.

2. **Door handle installation.** Remove the two plugs from the door where you will attach the door handle. Apply door handle, plastic washer and screw and fasten the screw. For floor-level installation the handle should be mounted at the higher location. For stacking above another compatible unit, the handle should be mounted at the lower location.

3. **Ground (earth)**

⚠WARNING

Use a power supply outlet with ground (earth) to prevent electric shock. If the power supply outlet is not grounded, qualified personnel must install a ground.
Never ground the unit through a gas pipe, water main, telephone line or lightning rod. Such grounding may cause electric shock in the case of an incomplete circuit.

START-UP OF UNIT

The following procedures should be adhered to for initial start-up and continuous operation.

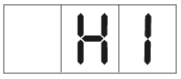
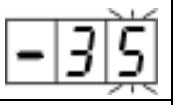
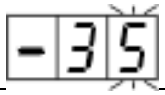
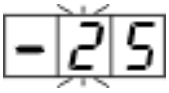
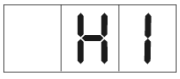
1. Connect the unit to dedicated power supply. Do not put any product in the unit at this time.
2. Set the desired temperature.
3. Confirm that the chamber temperature is at the desired temperature.
4. When you are satisfied that the unit is working correctly, begin slowly placing product into the chamber to minimize the temperature rise.
5. As this freezer's shelf is also an evaporator, the surface of the shelf will reach a much colder temperature than the displayed temperature. (The displayed temperature is the same as the air temperature inside of the freezer). Placing heat insulation material such as plastic between shelf and product is required if the product's desired temperature is the freezer's displayed temperature.

OPERATING INSTRUCTIONS

Temperature setting

Table 1 shows the basic operation method. Perform key operation in the sequence indicated in the table. The example in the table is based on the assumption that the freezer temperature is –25°C.
Note: The unit is set at the factory at –20°C.

Table 1 Basic operation procedure (Example of setting: Freezer @ -25°C)

	Operation	Key operated	Display after the key operation
1	Connect to the power source.	-----	The current freezer temperature is displayed. When freezer temperature is higher than 30°C, HI is displayed and LO is displayed when lower than –36 °C. 
2	Press SET key.	SET	The first digit of the temperature display flashes.
3	Set to 5 by using the up arrow key.	▲▲	Pressing the up arrow key shifts up the flashing digit by one. Repeat until flashing digit turns to 5. 
4	Set to 5 by using the digit shift key and numerical value shift key.	▶▶	Pressing the digit shift key leads the flashes of the next digit. 
		▲▲	Pressing the up arrow key shifts up the flashing digit by one. Repeat until flashing digit turns to 2. 
5	Press SET key.	SET	The value (-25) is stored in memory and the current freezer temperature is displayed. 

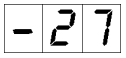
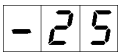
Note:
If no key has been pressed for about 90 seconds in the temperature set mode, the display mode returns automatically to the temperature display mode. In this case, the chamber temperature setting is not changed.
The freezer temperature can be set in the range between -15 and -25°C. Remember that the guaranteed temperature with no load at an ambient temperature of 21°C is -15 and -25°C.

OPERATING INSTRUCTIONS

Offset

The difference between chamber and indicated temperature can be arranged by key operation.
As an example, Table 2 shows the procedure in case actual freezer temperature is –25°C and displayed temperature is –27°C; change the displayed temperature to –25°C.

Table 2 Offset setup procedure

	Operation	Key operated	Display after the key operated
			The current freezer temperature is displayed. 
1	Pressing the up arrow key more than 5 seconds.	▲▲	The first digit of the temperature display flashes. 
2	Set to 2 by using Up arrow key.	▲▲	Pressing the key shifts up the figure by one in the following sequence: 1, 2, 3, …..8, 9, -9, -8, …, -1, 0. Repeat until flashing digit turns to 2. 
3	Press the set key.	SET	The current adjusted temperature (offset by +2 degrees) is displayed. 

OPERATING INSTRUCTIONS

Key lock operation

This unit incorporates a key lock feature that can inhibit tampering using the keys on the control panel.
The key lock is set to OFF at the factory.

Display	Mode	Function
Lo0	Key lock OFF	Temperature change enabled
Lo1	Key lock ON	Temperature change disabled

Table 3 Key lock setup procedure (Example: Key lock OFF ⇒ Key lock ON)

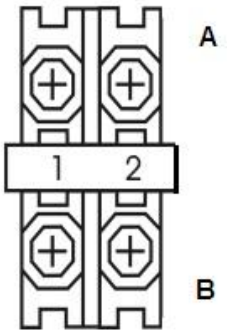
	Operation	Key operated	Display after the key operated
			The current freezer temperature is displayed.
1	Press and hold the digit shift key for about 5 seconds.	▶▶	The current key lock status (either Lo0 or Lo1) is displayed. 
2	Set the first digit to 1 with the up arrow key.	▲	Pressing the key alters 0 and 1. Choose 1 to turn on the key lock function. 
3	Press the set key.	SET	Key lock is set to ON and the current freezer temperature is displayed.

Note:
Key lock can be set any time when the current refrigerator temperature is displayed.

Remote alarm terminal

The terminal of the remote alarm is installed at the bottom of the unit. The alarm is outputted from this terminal between terminal 1 and terminal 2.
Contact capacity is DC 30V, 2 A.

At normal condition A1 and A2 are “Open”
At abnormal condition A1 and A2 are “Closed”
The remote alarm to be connected to B1 and B2.



Note:
The alarm is actuated when the power cord is disconnected from the outlet and the power switch is OFF.

ALARMS AND SAFETY FUNCTIONS

This unit has the alarm and safety functions shown in Table 4, and also a self-diagnostic function.

Table 4 Alarms and safety functions

Kind of alarm or safety	Situation	Indication	Buzzer	Safety operation
High temperature alarm	If the chamber temperature exceeds the set temperature more than 3°C.	Alarm lamp flashes.	Intermittent tone after a delay of 15 minutes.	Remote alarm is activated after a delay of 15 minutes.
Low temperature alarm	If the chamber temperature is lower 3°C than the set temperature .	Alarm lamp flashes.	Intermittent tone after a delay of 15 minutes.	Remote alarm is activated after a delay of 15 minutes.
Power failure alarm	In the event of a power failure or disconnection of power supply plug from the outlet	Display shuts off.	-----	Remote alarm is activated.
Door alarm	When the door is open.	Door check lamp is lit.	Intermittent tone after a delay of 2 minutes.	-----
Auto return	If a key operation is not performed for about 90 seconds in each setting mode.	Chamber temperature is displayed.	-----	Setting mode is canceled.
Key lock	When the key lock is ON (L1).	-----	-----	Key input is unable.
Thermal sensor abnormality	If the thermal sensor goes open (E01/LO) or short circuit (E01/HI).	E01 and LO(E01 and HI) are displayed alternately on the temperature display.	-----	Compressor operates continuously.
	If the defrost sensor goes Open (E02)or short circuit (E02).	E02 and chamber temperature is displayed alternately on the temperature display.		Normal running and defrost will be passed.

Note:

The alarm can be canceled by pressing the alarm buzzer stop key (BUZZER), but the remote alarm cannot be silenced.

After a power failure, the unit will resume operation with the set value that was in place before power failure occurred.

DEFROSTING

The defrosting is activated when DEF key is pressed more than 5 seconds.

Remove and store the content to other freezer before starting the defrosting. Place cotton bath towels at the bottom of the freezer chamber before the start of defrosting as the defrost water will fall. Keep the door open in order to quicken defrosting. If bath towels are soaked, remove from the chamber, dry them and replace to prevent water to drip out of chamber. Do not try to physically remove ice as that may cause the damage to the evaporator. After defrosting, remove wet towels, dry inside chamber with dry soft clothes before re-start of the unit.

Pressing the DEF key for more than 5 seconds will restart the operation of the freezer.

MAINTENANCE

⚠ WARNING

Always disconnect the power supply to the unit prior to any repair or maintenance of the unit in order to prevent electric shock or injury.

Ensure you do not inhale or consume medication or aerosols from around the unit at the time of maintenance. These may be harmful to your health.

Cleaning

- Clean the unit once a month. Regular cleaning keeps the unit looking new.
- Use a dry cloth to wipe off small amounts of dirt on the outside and inside of the unit and all accessories. If the outside panels are dirty, clean them with a diluted neutral dishwashing detergent. (Undiluted detergent can damage the plastic components. For the dilution, refer to the instruction of the detergent.) After the cleaning with the diluted detergent, always wipe it off with a wet cloth. Then wipe off the cabinet or accessories with a dry cloth.
- Never pour water onto or into the unit. Doing so can damage the electrical insulation and may cause electric shock or short circuit.
- The compressor and other mechanical part are completely sealed. This unit requires absolutely no lubrication.

Stacking two units

- You can stack two freezers, or you can stack this freezer and SR-L6111W (laboratory refrigerator) to double the floor space efficiency. To stack two units, you must order the stacking accessory kit part number 833-0-3131-101-00. The stacking instructions in the accessory kit must be obeyed strictly for safety, as stacking will bring the center of gravity significantly higher than when one unit is placed on the floor.

⚠ WARNING

Always disconnect the power supply to the unit prior to stacking two units in order to prevent electric shock or injury.

Any stacked combination of our refrigerator and / or freezer must be secured using all hardware provided with the stacking accessory kit.

When stacking the freezer and the refrigerator, always keep the freezer at the bottom

TROUBLESHOOTING

If the unit malfunctions, check the following potential causes before calling for service. In the case of inadequate refrigeration or freezing, transfer the stored items to another freezer before checking.

If nothing operates even when the unit is plugged in

1. The unit is not connected to the power supply or capacity of power source is not enough.
2. There is a power failure, the fuse is blown, or the circuit breaker is activated.

When the unit does not accept changes of set-point temperature

1. The key lock is not “OFF”. See page 14 for “key lock.”

When alarm is activated

On start-up

1. The temperature in the unit does not match set value.

In use

1. The door was kept open for a long time.
2. The set value was changed.
3. Vessels containing a high temperature load were put in the unit.
In these cases, the alarm may be deactivated automatically by running the unit for several hours.

When the unit does not cool adequately

1. The air exhaust vent is blocked by freezer contents.
2. A large amount of warm objects was put in the unit.
3. Some heat sources in the unit.
4. The door is opened frequently.
5. The ambient temperature is too high.
6. The unit is in direct sunlight.
7. The door is not securely closed.
8. The door seal is damaged or foreign substance inserted between the door gaskets.
9. Check the “offset,” to make sure set temperature is not offset. See page 13 for “offset.”

DISPOSAL OF UNIT

> ⚠ **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 that doors cannot be closed completely.**
> **The disposal of the unit should be performed by appropriate personnel. Always remove doors** to prevent accidents such as suffocation.

SPECIFICATIONS

Product name	Laboratory Freezer SF-L6111W
Model No.	SF-L6111W-PA
External dimensions	W 23 5/8” x D 25 31/32” x H 34 5/8” (W 600 mm x D 652 mm x H 880 mm)
Internal dimensions	W 20 7/8” x D 17 5/16” x H 27 13/16” (W 530 mm x D 441 mm x H 706 mm)
Effective capacity	5.5 Cubic Feet (156 L)
Exterior	Galvanized steel, polyester resin baked finish
Interior	Vacuum formed plastic
Door	Galvanized steel, polyester resin baked finish
Insulation	Rigid polyurethane foamed-in-place
Shelf	Polyethylene coated pipe and wire. Shelves function as evaporator. Size: W 20” x D 16 9/16” (W 508 mm x D 421 mm) Max. load; 28 kg/shelf
Access port	Inner diameter 1 3/16” (30 mm), 1 port on the right side
Cooling method	Forced air circulation
Compressor	Reciprocal type, output; 142 W
Evaporator	Wire and tube type, evaporator serves as shelves
Condenser	Tube with wire at the bottom of the unit
Refrigerant	R-134a
Defrosting	Manual defrosting
Defrost heater	None
Temperature controller	Microprocessor control system
Temperature display	Digital display
Thermal sensor	Thermistor sensor
Alarm & Safety	High temperature alarm, Low temperature alarm, Power failure remote alarm, Door alarm, Key lock, Thermal sensor abnormality
Memory backup	Nonvolatile memory
Weight	117 lbs, (53 kg)
Accessories	1 set of keys
Option	Stackable kit, part number 833-0-3131-101-00

Note: Design or specifications will be subject to change without notice.

PERFORMANCE

Product name	Laboratory SF-L6111W
Model No.	SF-L6111W-PA
Control range	Freezer: -25°C to -15°C (Ambient temperature 21 °C, no load)
Rated voltage	AC 115 V
Rated frequency	60 Hz
Power consumption	96 W

⚠ CAUTION

Please fill in this form before servicing.

Provide this form to the service engineer to keep for safety.

Safety check sheet

1. Freezer 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 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) above:

Date:
Signature:
Address, Division:
Telephone:

Product name: Laboratory Freezer	Model: SF-L6111W	Serial number:	Date of installation:

Please decontaminate the unit yourself before calling the service engineer.

Panasonic Healthcare Company of North America

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