



Instruction Manual

Glass Door Merchandiser Refrigerator and Freezer (Swing and Sliding Door)

Models:

G1M-12-B-1

G1M-12-W-1

G1M-16-B-1

G1M-16W-1

G1M-23-B-1

G1M-23-W-1

G1M-SW-48-B-1

G1M-SW-48-W-1

G1M-SD-47-B-1

G1M-SD-47-W-1

G1M-70-B-1

G1M-70-W-1

G1F-23-B-1

G2F-48-B-1

G1F-23-W-1

G2F-48-W-1

Supera Customer Care Toll-Free Service Line:

1-866-953-3288

For additional product and warranty information, please visit our website at

www.SuperaCo.com

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1. Introduction

This instruction manual provides all the necessary information regarding:

- Use of the GDM
- Technical specifications
- Installation and handling
- Operator procedures and instructions
- Maintenance operation

The manual is to be considered an integral part of the GDM and should be stored in a safe place for further consultation for the working life of the GDM.



The manufacturer cannot be held liable in the following cases:

- Improper installation (*not in accordance with the guidelines indicated herein*)
- Misuse of the GDM
- Power supply defects
- Improper or inadequate maintenance
- Unauthorized modification or tampering
- Use of non-original (NON-OEM) parts
- Partial or total failure to comply with the instructions

All electrical equipment can be hazardous to health. Current standards and legal requirements must be complied with during the installation and use of any equipment.

2. Use of the Equipment

The refrigeration units are for storing and preserving fresh, perishable food and drinks.

The operating temperature for GDM is:

- Between 33°F and 39°F at room temperature of 100°F and 60% RH

3. Technical Features

The GDM is a ventilated system; the evaporator is in a separate insulated box on the top. All the materials used in the manufacturing of this unit are guaranteed to be suitable for use with food items. The gases used in the GDM are R134a; the refrigeration circuit is in compliance with current industry standards.

4. Operation

The gas in the refrigerating circuit is first compressed, liquefied and then evaporated in the ventilated evaporator, located on the top of the GDM.

This cycle involves the absorption of heat from the air in the GDM compartment. The heat produced is then dissipated to the outside environment by a condenser unit located on the bottom of the GDM.

5. Digital Display

A digital display and switches in the bottom panel of the GDM operate the unit.

The switches are for turning on the power supply and the lights inside the cabinet and top light box.

The red switch indicates that the unit is powered on.

The green switch indicates that the refrigerator compartment lights are powered on.

The digital display is for the regulation of all parameters to provide the correct operation of the GDM. Please consult all parameters in the digital display section of this manual.

6. Handling

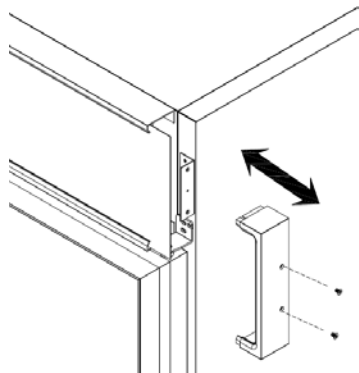
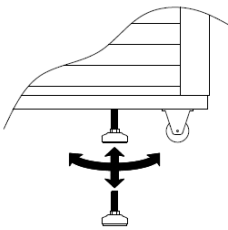
The GDM arrives in PET film and packed in a cardboard box on a wood pallet.



The GDM must be transported and handled with care. Never place a GDM on its side or turn it upside down as this may damage or impair operation of the refrigerated unit. **Supera** cannot be held liable for any damage or defects arising directly or indirectly from improper handling of the equipment or non-compliance with the safeguards illustrated above.

7. Installation Procedures

- Place the GDM in the coolest and best ventilated part of the room. Don't install the GDM near heat and direct sunlight sources.



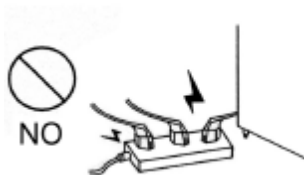
- Remove the straps securing the cardboard packing. Remove the cardboard covering. Remove the PET protection film.
- Adjust the leveling legs to isolate the casters from the ground.
- Clean the GDM with mild detergent and then dry it with a soft cloth.
- The unit should be installed more than 2" from any wall and at least 8" of clear space above the unit.
- If you want to change the artwork in the light box, unscrew the two screws on one of sides of light box, take off the cover, pulling out the plastic artwork board from the channels, replace with new plastic artwork board. Reassemble light box.

8. Connecting to the Main Power Supply

Qualified professionals must carry out this operation.



The refrigeration units are supplied complete with a power cord for the connection to the main power supply. A thermomagnetic circuit breaker (*not supplied*) must be installed between the main power point and the power cord of the GDM.



Before proceeding make sure that:

- The main voltage corresponds to the voltage on the GDM, which is 115V/60Hz/1Ph; to ensure proper operation it is essential for the power supply voltage to come within a range of +/-10% of the unit's rated voltage and the circuit is sized correctly for the load of the GDM.
- The electronic system to which the GDM is connected is made in compliance with current standard requirements
- The electric connections and the installation of the thermomagnetic circuit breaker have been done by qualified electricians.

Connection steps:

- Install a thermomagnetic circuit breaker sized for the rated output of the GDM unit being installed
- Plug the GDM unit to the thermomagnetic circuit breaker protected power outlet.

9. Maintenance Instructions

The smooth operation and life of the GDM is dependent on correct and regular maintenance.

Cleaning:

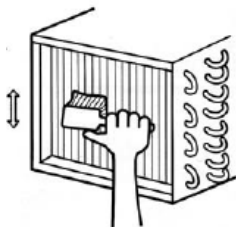
Regular cleaning of the GDM unit is strongly recommended each month. Please follow the instructions below.



Unplug the GDM power cord prior to carrying out any type of cleaning operation.

Cleaning the GDM surface:

Clean the GDM with mild detergent and then dry it with a soft cloth. Do not use abrasive detergents!



Cleaning the inside of the GDM:

Clean the inside area at a minimum of each month with a detergent suitable for use with food items.

Cleaning the condenser:

For an efficient operation of the GDM, it is advisable to clean the condenser regularly approximately every 4 months with a dry brush or vacuum cleaner.

10. Troubleshooting

GDM stops working (light off):

- Power supply failure

Solution:

- Check that the plug is properly connected
- Check that the on/off switch is set to “on”
- Check that the main power circuit is on

GDM temperature increases:

- Unit is located too close to a heat source
- Condenser is dirty or blocked

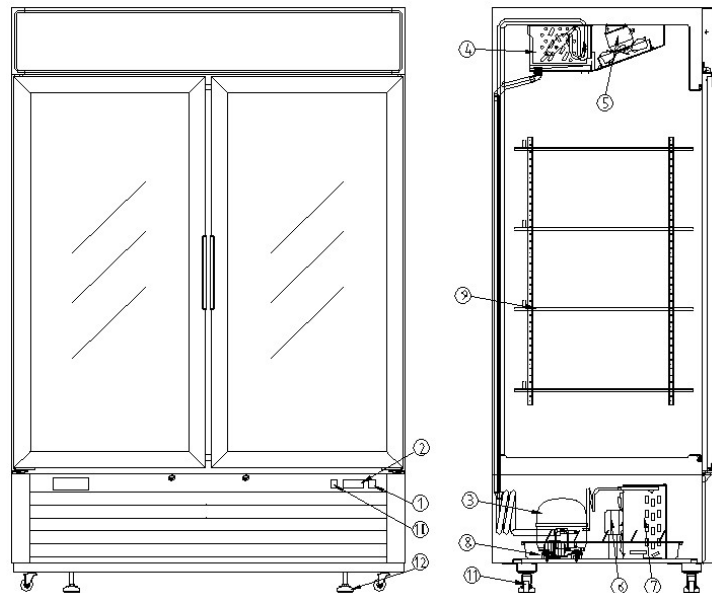
Solution:

- Move the heat source further away
- Clean the condenser

11. Technical Service

For technical service, please contact the **Supera** Service Department at 866-953-3288. Please provide the representative with the serial number, model number, and the date of purchase.

12. Unit Diagram



- | | | |
|---------------------|-----------------------------|------------------------|
| 1. Power | 2. Microcomputer Controller | 3. Compressor |
| 4. Evaporator | 5. Evaporator Fan Motor | 6. Condenser Fan Motor |
| 7. Condenser | 8. Drain Case | 9. Shelf |
| 10. LED Lamp Switch | 11. Casters | 12. Level Foot |

Operating Instructions

1. New, upright air-cooling refrigeration units should be opened and ventilated before first use. After ventilation, the interior should be cleaned with warm water before use.
2. After connecting the power supply, press the **GREEN** power switch to turn on the unit. The light should illuminate and the refrigeration unit's power will turn on. The microcomputer controller, installed in the controller keyboard, can automatically adjust the temperature ranges. This intelligent digital controller works as follows: If the temperature increases and reaches set point plus differential, the compressor is started and then turned off when the temperature reaches the set point value again.



Front Panel Commands—Digital Display

SET

To display target set point, in programming mode it selects a parameter or confirm an operation



Press to start a manual defrost



Use to browse the parameter codes, or increase the displayed value in programming mode



AUX

Use to browse the parameter codes, or decrease the displayed value in programming mode

Key Combinations



+



Press together to lock or unlock the keyboard

SET

+



Press together to enter in programming mode






SET

+





Press together to return to room temperature display

How to See the Set Point:


LED	MODE	SIGNIFICATO
	On	Compressor enabled
	Flashing	Anti short cycle delay enabled (AC parameter)
	On	Defrost in progress
	Flashing	Dripping in progress
	On	Fans output enabled
	Flashing	Fans delay after defrost
	On	Measurement unit
	Flashing	Programming mode
	On	Measurement unit
	Flashing	Programming mode

1. Push and immediately release the **SET** key, the set point will be shown.
2. Push and immediately release the **SET** key or wait about 5 seconds to return to the normal display.

How to Change the Set Point:




1. Push the **SET** key for more than 2 seconds to change the Set point value.
2. The value of the set point will be displayed and the “°C” or “°F” LED starts blinking.
3. To change the Set value push the  or  arrows.
4. To keep the new set point value, push the **SET** key again or wait 10 seconds.


How to Start a Manual Defrost:

Push the **DEF**  key for more than 2 seconds and a manual defrost will start.

How to Change a Parameter Value:



To change the parameter's value, proceed as follows:

1. Enter the **Programming** mode by pressing the **SET+**  keys for 3s (“°C” or “°F” LED starts blinking).
2. Select the required parameter. Press the **SET** key to display its value.
3. Use  or  to change its value.
4. Press **SET** to store the new value and move to the following parameter.



To Exit: Press **SET+**  or wait 15 seconds without pressing a key.

NOTE: The set value is stored even when the procedure is exited by waiting for the time-out to occur.

To Lock the Keyboard:

1. Keep pressed for more than 3 seconds the  +  keys.
2. The “OF” message will be displayed and the keyboard will be locked.
3. If a key is pressed more than 3 seconds the “OF” message will be displayed.

To Unlock the Keyboard:

Keep pressed together for more than 3 seconds the  +  keys till the “on” message is displayed.

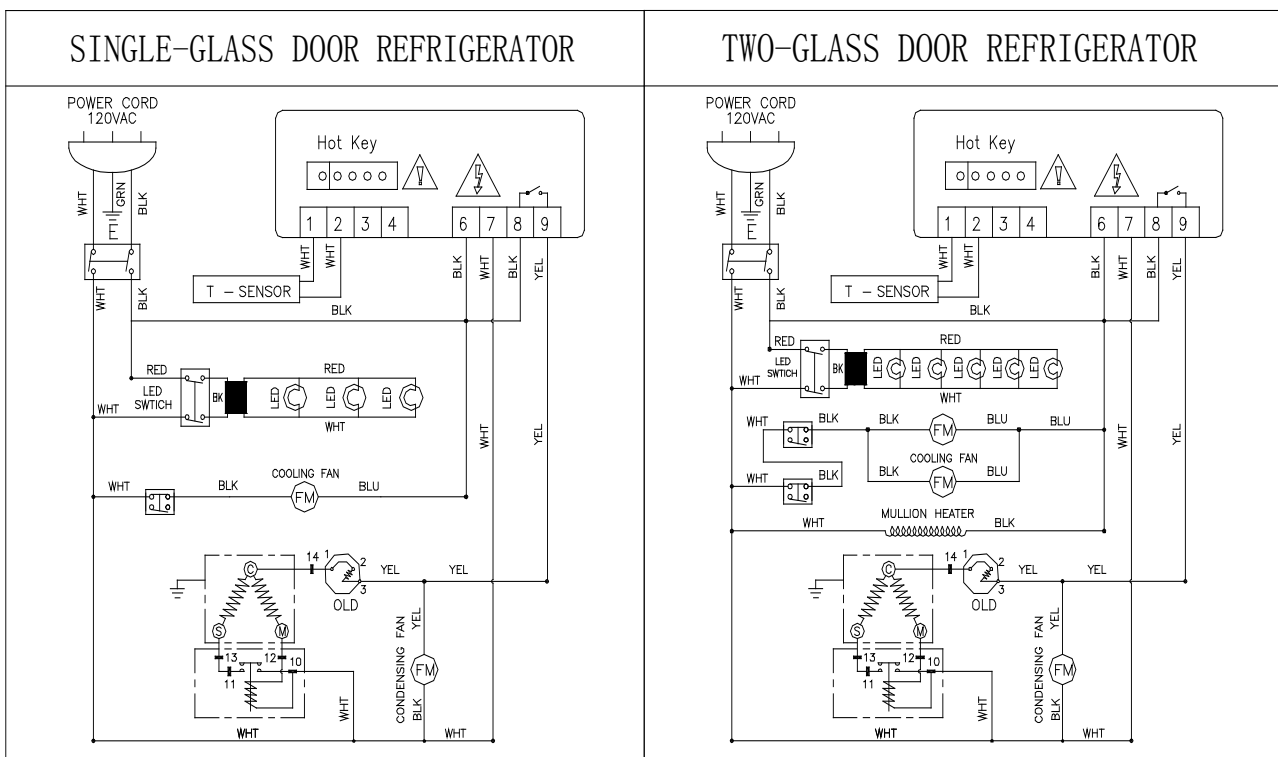
Alarm Signaling

Mess.	Cause	Outputs
"P1"	Room probe failure	Compressor output according to "Cy" e "Cn"
"P2"	Evaporator probe failure	Defrost end is timed
"HA"	Maximum temperature alarm	Outputs unchanged
"LA"	Minimum temperature alarm	Outputs unchanged
"EA"	External alarm	Outputs unchanged
"CA"	Serious external alarm	All outputs OFF
"dA"	Door Open	Compressor and fans restarts

Our products have been precisely set before leaving the factory, so, to avoid damaging the compressor unit or other malfunctions, users must not modify the microcomputer parameters.

Technical Parameters

Electrical Control Circuit Diagram



Product Type	Model Name	Power Supply (V/Hz/Ph)	Amps	Temperature Range(F)	Refrigerant	Dimensions (inches)	Net Weight (lb.)
Small Single-door GDM	G1F-23-B-1 G1F-23-W-1	115/60/1	3	-8° ~ -1°	R404a	24.2x24x63.2	280
Middle Single-door GDM	G2F-48-B-1 G2F-48-W-1	115/60/1	3.5	-8° ~ -1°	R404a	24.2x24x76.2	420

OFFICIAL APPROVALS

- Conforms to UL STD. 471
- Conforms to NSF 7
- Certified to CSA STD. C22.2 NO. 120



A product with the **SUPERA** name incorporates the best in durability and low maintenance. We recognize, however, that replacement parts and occasional professional service may be necessary to extend the life of this unit. When service is needed, contact a **SUPERA** Authorized Service Agency, or your dealer. To avoid confusion, always refer to the model number, serial number, and type of your unit.

Supera Customer Care Toll-Free Service Line:

1-866-953-3288

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