G-Series Cooler
Instruction Manual
G-1/GS-1  G-1.5/GS-1.5
G-2/GS-2  G-4/GS-4
G5/GS-5
Models: Listed on Inside Cover
For Future Reference

- This easy-to-use manual will guide you in getting the best use of your cooler.
- Remember to record the model number and the serial number. This information can be found on the inside of your cooler.
- Keep your receipt with this manual for future warranty service.

Model #: __________________________
Serial #: __________________________
Date of Purchase: ___________________
PARTS & IDENTIFICATION

GS-2

1. Cabinet
2. Interior Light
3. Interior Light Cover
4. Interior Light Cover Bracket (2)
5. Evaporator
6. Return Pipe
7. Evaporator Fan
8. Evaporator Plate
9. Evaporator Fan Cover Grill
10. Rear Grill
11. Door Gasket
12. Glass Door
13. Top Hinge
14. Bottom Hinge
15. Large Shelf (2)
16. Bracket (4)
17. Clip (8)
18. Key (2)
19. Leveling Leg (4)
20. Compressor Base
21. Compressor
22. Drip Pan
23. Magnetic Switch
24. Magnetic Sensor
25. Condenser Bracket (4)
26. Thermostat
27. Transformer
28. Transformer Box
29. Small Shelf
30. Leveling Leg (4)
31. Compressor Base
32. Compressor
33. Drip Pan
34. Thermostat Box
35. Thermostat Box Cover
36. Thermostat Label
37. Door Light Switch
38. Interior Light Switch
39. Filter Dryer
40. Condenser Fan
41. Condenser Fan Cover
42. Condenser Fan Grill
43. Power Cord
44. Condenser
45. Heating Pipe

GS-4

1. Cabinet
2. Interior LED Lamp
3. Interior Light Cover
4. Interior Light Cover Bracket (2)
5. Evaporator
6. Return Pipe
7. Evaporator Fan
8. Evaporator Plate
9. Evaporator Fan Cover Grill
10. Rear Grill
11. Door Gasket
12. Glass Door
13. Top Hinge
14. Hinge Cover
15. LED Lights (4)
16. Bottom Hinge
17. Bottom Hinge Washer
18. Lock
19. Key (2)
20. Large Shelf (3)
21. Pilasters (4)
22. Shelf Clips (12)
23. Lockpin
24. Magnetic Switch
25. Magnetic Sensor
26. Condenser Clip (4)
27. Thermostat
28. Transformer 1A
29. Transformer for Condenser Fan
30. Transformer Box
31. Transformer Box
32. Leveling Leg (4)
33. Compressor Base
34. Compressor
35. Drip Pan
36. Thermostat Box
37. Thermostat Box Cover
38. Thermostat Label
39. Switch (2)
40. Filter Dryer
41. Condenser Fan
42. Condenser Fan Cover Grill
43. Condenser Fan Grill
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**Parts & Identification**

G-5/GS-5

1. Cabinet
2. Interior LED Lamp
3. Interior Light Cover
4. Interior Light Bracket (2)
5. Evaporator
6. Return Pipe
7. Evaporator Fan
8. Evaporator Safeguard
9. Evaporator Plastic Fan Cover
10. Rear Grill
11. Door Gasket
12. Glass Door
13. Top Hinge
14. Hinge Cover
15. LED Lights (4)
16. Bottom Hinge
17. Bottom Hinge Washer
18. Lock
19. Key (2)
20. Large Shelf (4)
21. Plasters (4)
22. Shelf Clips (16)
23. Lockpin
24. Magnetic Switch
25. Magnetic Sensor
26. Magnetic Switch Box
27. Magnetic Switch Cover
28. Condenser Clip (4)
29. Thermostat
30. Switching Power Supply
31. Leveling Leg (4)
32. Compressor Base
33. Compressor
34. Drip Pan
35. Thermostat Box
36. Thermostat Box Cover
37. Thermostat Label
38. Switch (2)
39. Filter Dryer
40. Condenser Fan
41. Condenser Fan Cover
42. Power Cord
43. Heating Pipe
44. Condenser
45. Switch (2)
46. Filter Dryer
47. Compressor Base
48. Compressor
49. Drip Pan
50. Thermostat Box
51. Thermostat Box Cover
52. Thermostat Label
53. Switch (2)
54. Filter Dryer
55. Condenser Fan
56. Condenser Fan Cover
57. Power Cord
58. Heating Pipe
59. Condenser
60. Switch (2)
61. Filter Dryer
62. Compressor Base
63. Compressor
64. Drip Pan
65. Thermostat Box
66. Thermostat Box Cover
67. Thermostat Label
68. Switch (2)
69. Filter Dryer
70. Condenser Fan
71. Condenser Fan Cover
72. Power Cord
73. Heating Pipe
74. Condenser
75. Switch (2)
76. Filter Dryer
77. Compressor Base
78. Compressor
79. Drip Pan
80. Thermostat Box
81. Thermostat Box Cover
82. Thermostat Label
83. Switch (2)
84. Filter Dryer
85. Condenser Fan
86. Condenser Fan Cover
87. Power Cord
88. Heating Pipe
89. Condenser

**Safety Instructions**

1. To reduce the risk of fire, electric shocks, or injury when using your cooler, please note the following:
2. Never clean appliance parts with flammable fluids.
3. Do not store or use gasoline or any other flammable vapors and liquids in the vicinity of this or any other appliance. The fumes can cause a fire or explosion.
4. As with all electrical appliances, please consult a licensed repair technician for any repairs.
5. Do not block the ventilation holes located on the top of the cabinet.

**Installation**

- Keep cooler in an upright position for 1-hour prior to use. This is essential for proper operation. If the cooler is transported in the horizontal position, the cooler must be returned to the upright position and not plugged in for 1 hour.
- Remove all the packaging material before using your cooler.
- Clean the interior surface with a soft cloth and lukewarm water.
- If the cooler is transported in the horizontal position, check the drain pan and ensure that it is properly positioned above the compressor.
- For proper operation, place the cooler on a dry, level surface.
- Place the cooler at least 4” away from any walls. Otherwise, this could cause damage to the electrical cord and block the air circulation to the appliance.
- Do not block the air intake that ventilates the condenser unit.

**Electric Connection**

- This model operates with an 110-120V/60Hz power supply. Check the electrical outlet for proper voltage.
- Warning: Plug unit directly into wall outlet. Do not use an extension cord or any other multiple connectors.
- For your safety, plug the unit into a grounded wall outlet.

**Start**

- Plug the cooler into the electrical outlet. For optimum performance, run cooler for 3 hours prior to use.
- Temperature Control: Do not adjust the temperature control. The temperature control is factory set to provide maximum performance. If really necessary, you can turn the thermostat by screw driver clockwise to have lower temperature inside the cooler.

**Light Control**

- The inside light is controlled by the magnetic switch.

**Pre-Caution, Non-Operating Coolers**

1. Door removed.
2. Shelves kept in place in order to prevent any small child from climbing inside cooler.

**Proper Disposal of the Refrigerator**

Distributors/retailers need to contact a qualified service technician:

1. To recover all refrigerant from the cooler
2. To remove the compressor or remove the oil from the compressor

Then the distributor/retailer can contact their local metal recycling center to pick up the remaining cabinet, shelves, etc. By law, disposal of hazardous wastes may be subject to fines and imprisonment under the provisions of the environmental regulations. For more information please visit: [http://www.epa.gov/osw/hazard/index.htm](http://www.epa.gov/osw/hazard/index.htm)

**Please Save These Instructions!**

**Danger!**
MAINTENANCE

Cleaning
• Before cleaning the appliance, always remember to unplug it.
• Unplug the cooler at the electrical outlet; never pull the service cord.
• Do not use sharp or pointed objects for cleaning.
• Clean the inside cabinet of the cooler with a clean damp cloth. Avoid damage by using non-abrasive and non-flammable cleaning products.
• Clean the condenser at least once a month with a vacuum cleaner or a brush to eliminate the dust accumulation.

Light Replacement
• Unplug the cooler before removing the LED light strip.
• Remove the screws.
• Remove the light cover gently.
• Take out the LED light strip.
• Replace the used strip with new equivalent light strip.
• Install the light cover and tighten the screws.
• Plug in the cooler.

Power Failure
• Please minimize the frequency of opening the door during a power failure.
• If your cooler is unused for an extended period of time, unplug, empty, and clean your cooler and keep the door open to avoid condensation, formation of mold, or odors.

Moving The Cooler
• Empty the unit.
• Secure all loose parts inside the cooler.
• Tape the door shut.
• During transportation, make sure that the cooler is in an upright position.

Drip Pan
• During normal compressor cycle, water will drain into the drain pan and evaporate.
• To clean, gently pull the drain pan towards you and remove. Slowly reinstall it after cleaning.

LEVELING

Place the cooler on a dry, level surface.
• Unit must be leveled for proper operation, this will help prevent condensation.
• The cooler should be leveled front to back and side to side with a level.

LEVELING LEG CLEANING
• Use a cloth to clean leveling legs.

UNDER CABINET CLEANING
• Before starting, unplug the power cord to make sure the cooler is powered off.
• Once finished, plug the cooler power cord back in.
• Tilt the cooler back and use cloth to clean the bottom of cabinet.
• Use the cloth to also clean the compressor base board. Then level the cooler.

SHELVING INSTALLATION
Shelves are secured in place with zip ties. Cut zip ties to adjust shelves as desired.

Securely insert shelf clips into pilasters.

Shelf clips should be level so shelf lays flat.

G-1/GS-1 maximum load per shelf is 9.26 lbs/4.2 kg
G-1.5/GS-1.5 maximum load per shelf is 9.92 lbs/4.5 kg
G-2/GS-2 maximum load per shelf is 15.43 lbs/7 kg
G-4/GS-4 maximum load per shelf is 34 lbs/15.42 kg
G-5/GS-5 maximum load per shelf is 34 lbs/15.42 kg

Display refrigerators can be loaded within the shelf dimensions from the front to back side. They can also be loaded in any space from the bottom to the top interior cabinet. Do not allow product to block the evaporator fan cover because the evaporator fan helps the cooler to ventilate properly.
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Instruction Manual

SPECIFICATIONS

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<tr>
<th>MODEL</th>
<th>INTERNAL VOLUME</th>
<th>RATED VOLTAGE</th>
<th>RATED CURRENT</th>
<th>LAMP INPUT POWER</th>
<th>REFRIGERANT</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS-1-0234B</td>
<td>.83 ft³/23.5 L</td>
<td></td>
<td></td>
<td>0.9W</td>
<td>R600a</td>
</tr>
<tr>
<td>GS-1-234B</td>
<td>.83 ft³/23.5 L</td>
<td>110V/60Hz</td>
<td>2A</td>
<td>2.34W</td>
<td></td>
</tr>
<tr>
<td>GS-1.5-0234B</td>
<td>.96 ft³/27 L</td>
<td></td>
<td>2.7W</td>
<td>2.34W</td>
<td></td>
</tr>
<tr>
<td>GS-2-0234B</td>
<td>2.21 ft³/63 L</td>
<td></td>
<td>3A</td>
<td>2.16W</td>
<td></td>
</tr>
<tr>
<td>GS-4-0234B</td>
<td>4.22 ft³/119 L</td>
<td>110V/60Hz</td>
<td>3.9A</td>
<td>4.32W</td>
<td></td>
</tr>
<tr>
<td>GS-5-0234B</td>
<td>5.32 ft³/150.5 L</td>
<td></td>
<td>5.9A</td>
<td>5.22W</td>
<td></td>
</tr>
</tbody>
</table>

NSF/ASNI-7: Type II Display Refrigerator

A display refrigerator intended for use in an area where the environmental conditions are controlled and maintained so that the ambient temperature does not exceed 80°F (27°C).

TROUBLESHOOTING

The following are NOT malfunctions:

<table>
<thead>
<tr>
<th>Situation</th>
<th>Causes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid flowing noise within cooler</td>
<td>This is the sound of the cooling agent flowing through the pipes.</td>
</tr>
<tr>
<td>Refrigeration system is shutdown for longer periods of time while temperature inside is still very low</td>
<td>This refrigerator is well insulated and can maintain a relatively ambient temperature.</td>
</tr>
<tr>
<td>Condensation on door/lid</td>
<td>This may be due to a high indoor humidity or the cooler's temperature is set too low. Wipe the door dry with a towel.</td>
</tr>
</tbody>
</table>

1. This refrigerator has been designed and manufactured according to National standards. If there are any questions during use, refer to this operation manual to help troubleshoot problems.

2. When disposing of the cooler, please remove the door/lid and lock assembly to avoid children accidentally becoming trapped inside the cooler.

Prior to calling service, check the following:

AFTER SALES SERVICE

Any product has the possibility of malfunction. Please observe the cooler’s operation and any changes to product being stored. If there are any abnormal cases, refer to the table below. If there is still no change after following the below instructions, please inform our service center in a timely manner to avoid a further loss of the unit.

Information to provide to your qualified service professional:

- Serial number from the interior wall of the cooler
- Coolers’ installation address and contact information
- Installation location hours and operation
- Nature of problem
- Any reports of power interruptions
- Recent service or maintenance completed on the cooler
- Has the cooler been relocated from original installation location
- Clear access to the cooler
- Coolers’ instruction manual
CAUTION FLAMMABLE REFRIGERANT

• **DANGER – Risk Of Fire Or Explosion.** Flammable Refrigerant Used. To Be Repaired Only By Trained Service Personnel. Do Not Puncture Refrigerant Tubing.
• **CAUTION – Risk Of Fire Or Explosion.** Flammable Refrigerant Used. Consult Repair Manual/Owner’s Guide Before Attempting To Install or Service This Product. All Safety Precautions Must be Followed.
• **CAUTION – Risk Of Fire Or Explosion.** Dispose Of Properly In Accordance With Federal Or Local Regulations. Flammable Refrigerant Used.
• **CAUTION – Risk Of Fire Or Explosion** Due To Puncture Of Refrigerant Tubing; Follow Handling Instructions Carefully. Flammable Refrigerant Used.
• **CAREFUL** – Handling, moving and operating of the refrigerator or freezer to avoid either damaging the refrigerant tubing, or increasing the risk of a leak.
• **CAUTION** – Component parts shall be replaced with like components and that servicing shall be done by factory authorized service personnel, so as to minimize the risk of possible ignition due to incorrect parts or improper service.

Switch Status | Interior LED Switch | Door LED Switch | Remark
--- | --- | --- | ---
I / I | ON | ON | Interior Lights ON and Door logo ON
I / O | ON | OFF | Interior Lights OFF and Door logo OFF
O / I | OFF | ON | Interior Lights OFF and Door logo ON, Interior Lights turn ON when door opens
O / O | OFF | OFF | Interior Lights OFF and Door logo OFF, Interior Lights turn ON when door opens

CIRCUIT DIAGRAM FOR GS-1 MODELS

GS-1-N234B, GS-1-W234B, GS-1-B234B, GS-1-P234B

XP - Plug
CO - Compressor
E - Overload Protector
SAT - Temperature Control
T2 - Transformer for Fan Motor
S1 - Door LED Switch
M1 - Inner Fan
G - Start Relay
L1 L2 - LED Lamp
T1 - Transformer for Lights
IL - Magnetism Switch
S2 - Inner LED Switch
M2 - Motor Fan

GS-1-0234B

XP - Plug
E - Overload Protector
SAT - Temperature Control
T2 - Transformer for Fan Motor
S1 - Door LED Switch
M1 - Inner Fan
G - Start Relay
L1 L2 - LED Lamp
T1 - Transformer for Lights
IL - Magnetism Switch
S - Inner LED Switch
M2 - Motor Fan


XP - Plug
CO - Compressor
E - Overload Protector
SAT - Temperature Control
T2 - Transformer for Fan Motor
S1 - Door LED Switch
M1 - Inner Fan
G - Start Relay
L1 L2 - LED Lamp
T1 - Transformer for Lights
IL - Magnetism Switch
S2 - Inner LED Switch
M2 - Motor Fan
CIRCUIT DIAGRAM FOR GS-1.5 MODELS
GS-1.5-N234B, GS-1.5-W234B, GS-1.5-B234B, GS-1.5-P234B

CIRCUIT DIAGRAM FOR GS-2 MODELS
GS-2-0234B, GS-2 & GS-2-N12EB

GS-1.5-0234B

CIRCUIT DIAGRAMS FOR GS-4 MODELS

GS-4-0234B
XP - Plug
G - Start Relay
L1, L2, L3 - LED Lamp
M1 - Evaporator Fan
M2 - Condenser Fan
T1 - Transformer
CO - Compressor
E - Overload Protector
SAT - Thermostat
IL - Magnetism Switch
S - Inner LED Switch
T2 - Transformer for Condenser Fan

GS-4-2234B, GS-4-2W234B, GS-4-2B234B, GS-4-2P234B
XP - Plug
G - Start Relay
L1, L2, L3 - LED Lamp
M1 - Evaporator Fan
M2 - Condenser Fan
T1 - Transformer
T2 - Transformer for Condenser Fan
CO - Compressor
E - Overload Protector
SAT - Thermostat
IL - Magnetism Switch
S1 - Door LED Switch
S2 - Inner LED Switch

GS-4-A234B
XP - Plug
G - Starter
L1, L2, L3 - LED Lamp
M1 - Evaporator Fan
M2 - Condenser Fan
T1 - Transformer
T2 - Transformer for Condenser Fan
CO - Compressor
E - Overload Protector
SAT - Thermostat
IL - Magnetism Switch
S1 - Door LED Switch
S2 - Inner LED Switch

CIRCUIT DIAGRAM FOR GS-5 MODELS

GS-5-^*0234B, (^=H), (*=B,W,P)
XP - Plug
G - Start Relay
L1, L2, L3 - LED Lamp
M1 - Evaporator Fan
M2 - Condenser Fan
T - Switching Power Supply
CO - Compressor
E - Overload Protector
SAT - Thermostat
IL - Magnetism Switch
S - Inner LED Switch

XP - Plug
G - Start Relay
L1, L2, L3 - LED Lamp
M1 - Evaporator Fan
M2 - Condenser Fan
T - Switching Power Supply
CO - Compressor
E - Overload Protector
SAT - Thermostat
IL - Magnetism Switch
S - Inner LED Switch

Innovative DisplayWorks, Inc.

To locate the distributor in your area go to: http://www.idw.global/contact/#distributors