G-Series Cooler

Instruction Manual

G-9/GCG9
G-10f/GCG-10f
G-12f/GCG-12f

Models: Listed on Inside Cover

G-9

GCG-9

G-10f

GCG-10f

G-12f

GCG-12f

Original Instructions

idw
www.idw.global

G-Series Cooler
Instruction Manual
G-9/GCG-9
G-10f/GCG-10f
G-12f/GCG-12f

Models:
G-9
GCG-9
GCG-9B
GCG-9-B31N*
GCG-9-N31N*
G-9-N31N *
G-9-B31N*
GCG-9-231N*
GCG-9-A31N*
GCG-9-S31N*

*G,I,M,7,J plug

Models:
G-10
G-10-F31N*
GCG-10
GCG-10-F31N*
GCG-10-F231N*
GCG-10-FA31N*
GCG-10-FB31N*
GCG-10-FR31N*

*G,I,M,7,J plug

Models:
GCG-9-B91N*
GCG-9-N91N*
GCG-9-291N*
GCG-9-S91N*
GCG-9-W91N*
GCG-9-P91N*
GCG-9-Z91N*
GCG-9-A91N*
GCG-9-R91N*
G-9-S31N*
G-9-N91N*
G-9-B91N*
G-9-S91N*
G-9-P91N*

*G,I,M,7,J plug

Models:
G-12
G-12-F31N*
GCG-12
GCG-12-F31N*
GCG-12-F231N*
GCG-12-FA31N*
GCG-12-FB31N*

*G,I,M,7,J plug

Table of Contents

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.

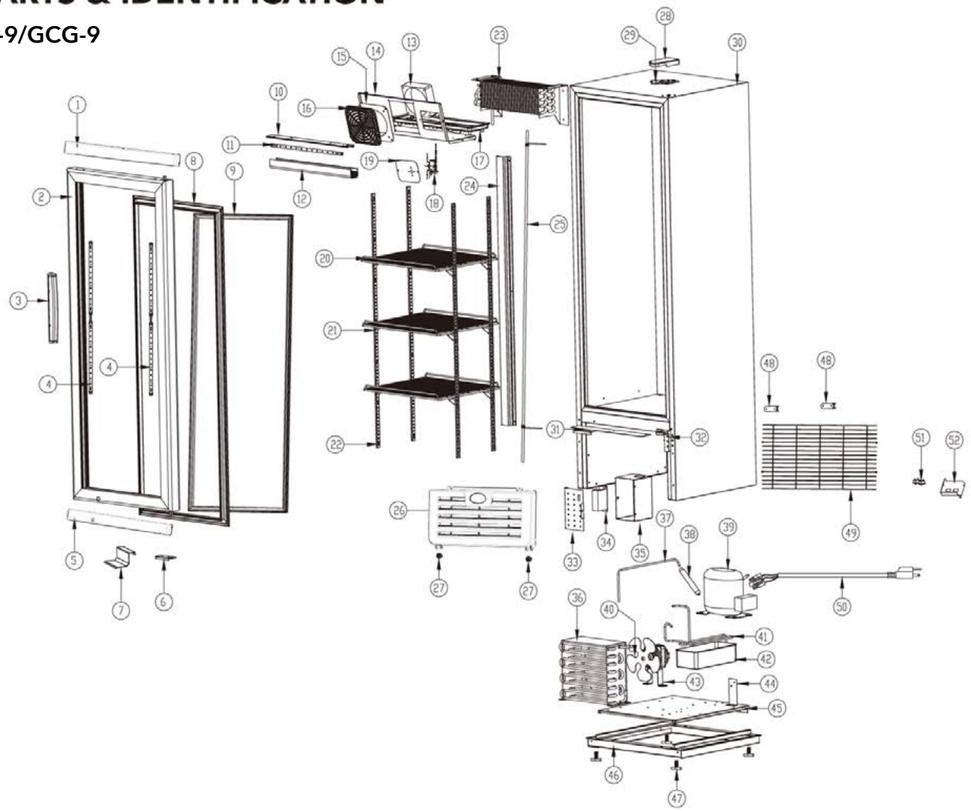
Model #: _____

Serial #: _____

Date of Purchase: _____

PARTS & IDENTIFICATION

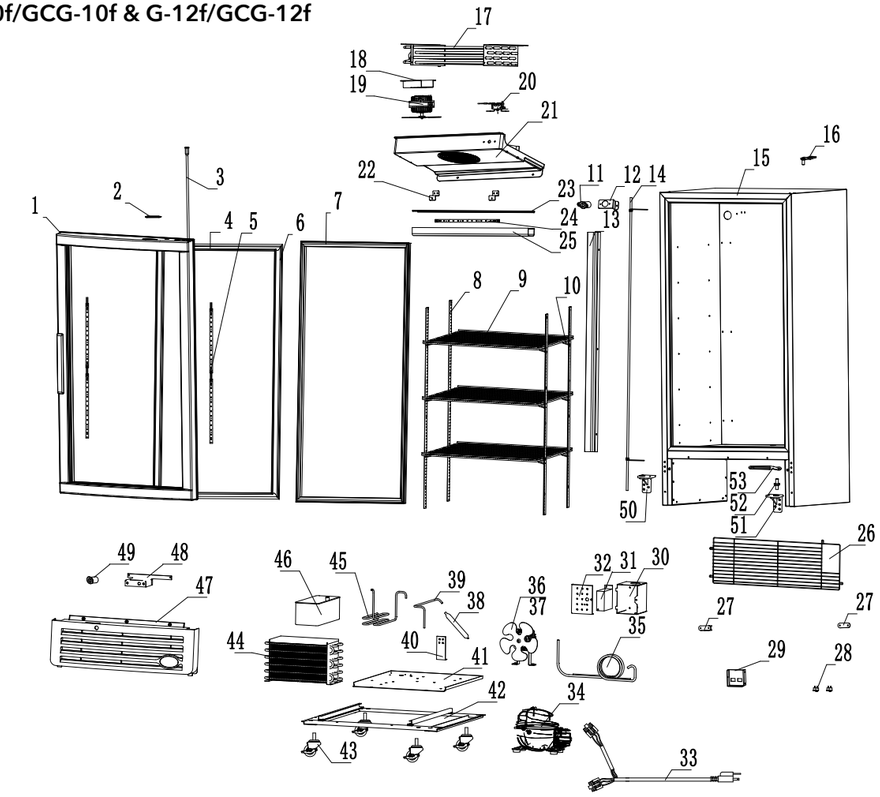
G-9/GCG-9



1. Top Door Trim
2. Glass Door
3. Door Handle
4. LED Light in Door
5. Lower Door Trim
6. Door Limiter
7. Door Support
8. LED Light Cover
9. Door Gasket
10. Top Lamp Stand
11. LED Light
12. LED Light Cover
13. Evaporating Fan
14. Control Panel
15. Fan Baseboard
16. Fan Guard
17. Water Container
18. Thermostat
19. Thermostat Panel
20. Shelf (5)
21. Shelf Clips (20)
22. Pilaster (4)
23. Evaporator
24. Tubing Cover
25. Return Pipe
26. Grill
27. Plastic Fixation Column (2)
28. Top Hinge Cover
29. Top Hinge
30. Cabinet
31. Fixing Bracket for Grill
32. Lower Hinge
33. Electric Box Cover
34. Transformer for LED Light
35. Electric Box
36. Condenser
37. Connecting Tube for Filter Dryer
38. Filter Dryer
39. Compressor
40. Condenser Fan
41. Connecting Tube for Condenser
42. Water Container
43. Fan Support
44. Filter Dryer Bracket
45. Upper Baseboard
46. Lower Basebard
47. Leveling Leg (4)
48. Bumper Block (2)
49. Compressor Guard
50. Power Cord
51. Light Switch (2)
52. Fixing Bracket for Light Switch

PARTS & IDENTIFICATION

G-10f/GCG-10f & G-12f/GCG-12f



1. Glass Door
2. Door Inserts
3. Door Torsion Rod
4. LED Light Cover (2)
5. LED Light in Glass Door
6. LED Light Cover (2)
7. Door gasket
8. Pilasters (4)
9. Shelf (4)
10. Shelf Clip (16)
11. Drain Pipe
12. Connecting Tube Plate
13. Tubing Cover
14. Return Pipe
15. Foam Cbinet
16. Top Hinge
17. Evaporator
18. Fan Baseboard
19. Evaporating Fan
20. Thermostat
21. Control Panel
22. Control Panel Bracket (2)
23. Top Lamp Stand
24. LED Light
25. LED Light Cover
26. Compressor Guard
27. Bumper Block (2)
28. Light Switch (2)
29. Socket Box Cover
30. Electric Box
31. Switching Power Supply
32. Electric Box Cover
33. Power Cord
34. Compressor
35. Connecting Tube for Return Pipe
36. Condenser Fan
37. Fan Support
38. Filter Dryer
39. Connecting Tube for Filter Dryer
40. Filter Dryer Bracket
41. Upper Compressor Baseboard
42. Lower Baseboard
43. Universal Wheel (4)
44. Condenser
45. Connecting Tube for Condenser
46. Water Container
47. Front Grill
48. Reinforced Steel for Front Grill
49. Door Lock
50. Left Bottom Hinge
51. Right Bottom Hinge
52. Bottom Hinge Axle
53. Door Limiter

SAFETY INSTRUCTIONS

1. When using this appliance, always follow the basic safety precautions:
2. Read the entire User's Manual before operating this appliance.
3. Use this appliance only for its intended purpose as described in this User's Manual.
4. This appliance must be properly installed in accordance with the installation instructions before being used.
5. IDW requires that a dedicated circuit be used for the unit. Failure to do so voids warranty.
6. Never unplug your appliance by pulling on the power cord. Always grasp the plug firmly and pull it straight out from the outlet.
7. Unplug your appliance before cleaning or making any repairs. ***Note: If for any reason this product requires service, we strongly recommend that a certified technician perform the service.***
8. When disconnecting the power source, wait at least 5 minutes to reconnect the power to avoid damage to the compressor and the cooling system.
9. Immediately repair or replace all electrical cords that have become frayed or otherwise damaged. Do not use a cord that shows cracks or abrasion damage along its length, the plug or the connector end.
10. Do not operate or store your appliance near or around explosive fumes, gasoline or other flammable vapors and liquids.
11. Do not use flammable liquids to clean unit.
12. Setting the temperature control to the 0 position does not remove power to the light circuit, perimeter heaters, or evaporator fans.
13. Do not adjust the temperature control. The temperature control is factory set for maximum performance.

PLEASE SAVE THESE INSTRUCTIONS!

DANGER!

PROPER DISPOSAL OF THE REFRIGERATOR

Pre-Caution, Non-Operating Coolers Should Have:

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

For Proper Disposal of Cooler:
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.

INSTALLATION

Installation of the cooler must be done according to applicable local codes or equivalent.

Ambient Environment

- Place cooler on an even surface to reduce vibration and noise.
- To transport, do not tilt the cooler beyond a 45 degree angle.
- Do not place cooler in direct sunlight or near any heat sources.
- Do not place cooler in environment temperatures that exceed 109°F.
- Do not place cooler in below normal temperatures.
- Do not place cooler in extreme humid environments, this may cause components to rust.
- Do not place cooler near constant running or splattering water, this may cause immediate damage to refrigeration system.
- Must allow at least 4" between rear of cooler and wall for proper ventilation and heat dissipation of cooler.
- Do not place furniture or other articles with sharp edges near the cooler in order to prevent damage to the glass door.
- This cooler is for indoor use.
- Place unit in it's final location, making certain there is adequate ventilation in the room.

WARNING: Warranty is void if ventilation is insufficient.

Preparation Prior to Operation

- Remove all packaging materials before using cooler. This includes: foam pedestal, adhesive tape (used to fix accessories) and protective gaskets.
- Inspect cooler for concealed damage. Immediately file a claim with the freight carrier if there is damage. IDW is not responsible for damage incurred during shipping.
- Cooler must remain unplugged in an upright position for 1 hour prior to use.
- Clean the interior surface with a soft cloth and lukewarm water before operation.
- Ensure that drain hose or hoses are positioned in the pan.
- Remove plug and cord from inside the lower rear of the cooler.
- The unit should be placed close enough to the electrical supply so that extension cords are not used.

Electrical Requirements

- This model operates with a 220-240V/50Hz power supply. Check the electrical outlet for proper voltage.
- Dedicate one outlet for the use of the cooler.
- Do not use an extension cord or any other multiple connectors as this can lead to compressor failure.
- If the cord is damaged, it must be replaced.
- For your safety, plug the unit into a grounded wall outlet. Please check with a certified electrician for details.

WARNING: Do not use extension cords.
WARNING: Compressor warranties are void if compressor burns out due to low voltage.
WARNING: Power cord ground pin must NOT be removed!

LEVELING

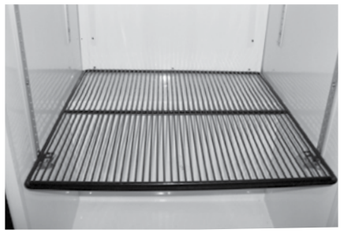
- Set unit in its final location making certain there is adequate ventilation in the room.

  WARNING: Warranty is void if ventilation is insufficient.
- Proper leveling of the cooler is critical to it operating correctly. Condensation removal and door operation are both affected by leveling.
- The cooler should be leveled front to back and side to side with a level.
- Ensure the drain hose or hoses are positioned in the pan.
- Remove the plug and cord from inside the lower rear of the cooler.
- The unit should be placed close enough to the electrical supply so that extension cords are never used.

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-9/GCG-9 maximum load per shelf is 21 kg/46 lbs
G-10f/GCG-10f maximum load per shelf is 30 kg /66 lbs
G-12f/GCG-12c maximum load per shelf is 30 kg /66 lbs

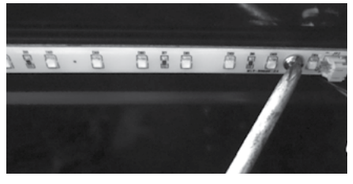
Display refrigerators can be loaded within the shelf dimensions from the front to back side. They can also be loaded in any space from the bottom to the top interior cabinet. Do not allow product to block the evaporator fan cover because the evaporator fan helps the cooler to ventilate properly.

INTERIOR LIGHT REPLACEMENT

Instructions are as follows:

1 Press two sides of plastic cover by the fingers and remove it.

2 Disconnect the lights.



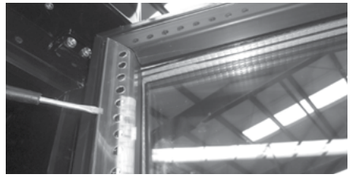
3 Unscrew all screws using a Phillip's screwdriver.

4 Remove LED light strand.

5 To install LED lights follow the above directions in reverse order.

DOOR LED LIGHT REPLACEMENT

1 Unplug Cooler



2 Remove plastic cover.

3 Disconnect top light strand.

4 Disconnect middle light strand.

5 Unscrew light strand.

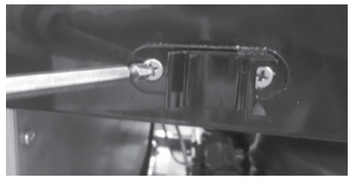
6 Remove entire light strand.

7 To install LED lights follow the above directions in reverse order.

NOTE: If there are any malfunctions with the main control panel of LED lights, please contact a professional for replacement.

SETTING UP SPACERS & POWER CORD HOLDERS

These coolers are supplied with one set (2 pieces) of Spacers to hold the extra length of Power Cord.



1 Take out the two Spacers and Screws supplied in the Accessory Pack shipped with the Cooler.

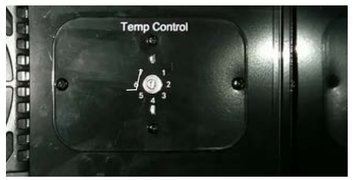
2 Use a Phillips screwdriver to secure the two Spacers onto the rear of the cooler.

START-UP, OPERATION AND TEMPERATURE ADJUSTMENT

Operation

Prior to stocking cooler with product, it should be operated empty for half an hour.

Temperature Adjustment



Performance tested position of the thermostat is between 4-6.

Switch Operation for Lit Door Logo

For GCG coolers only. The light switch located at the bottom left hand side, on the rear of the cabinet, is the ON/OFF switch for the Lit logo located on the door of cooler.

Button for Changing Motion Logo Modes

Mode 1: The logo lights are permanently lit and do not sequence.

Mode 2: The logo lights sequence showing the bottle emptying and flashing full. This is the default setting.

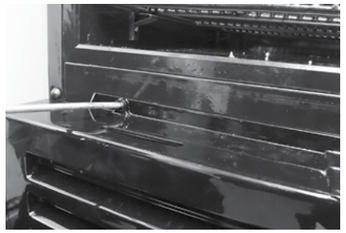
Please Note: When replacing the controller, remove four (4) screws on the rear cover plate to gain access.

MAINTENANCE

Condenser

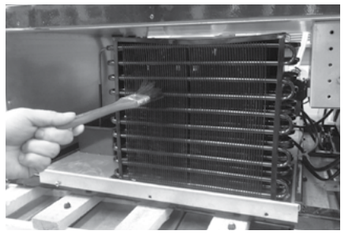
It is essential to keep the condenser coils clean and free of dust and debris at all times. Periodically clean the condenser coils with a soft bristle brush or vacuum-cleaner to properly maintain the refrigeration system. Failure to clean the condenser at regular intervals may cause failure of the refrigeration system and could void the warranty. Prior to any maintenance, be sure to unplug the cooler.

1 Remove the rubber cap from the front grill.



2 Using a small Phillips head screwdriver and remove the screws as shown.

3 The front grill can now be removed by pulling it up.



4 Using plastic bristle brush, carefully clean the condenser being aware that coils can bend or be damaged if too much force is used.

5 Replace grill and use the Phillips screwdriver to tighten the screws into place, replace the rubber caps.

Cleaning

- Unplug the cooler before cleaning.
- Use a soft cloth or sponge with soap and water (non-corrosive mild detergent), while cleaning. After cleaning, wipe the cooler using a dry cloth to prevent the cooler from rusting.
- Do not spray water on the cooler, and do not use hard or steel brushes to clean the cooler.
- Do not use organic solvents, boiling water, scrubbing powders or acids while cleaning.
- A drain or waste outlet ***may*** be provided for draining of a display refrigerator. ***If*** a display refrigerator drain is provided for flushing, it will have a minimum internal diameter of 1" (25mm)

If the cooler will be in a non-operational state for a long period of time, clean as instructed above, and keep the door open until interior is dry.

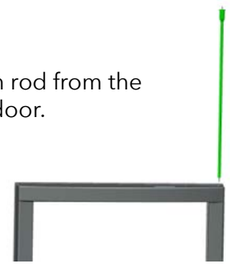
DOOR REVERSAL (for G10f & G12f doors only)

Instructions are as follows:

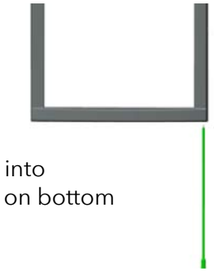
1 Remove front grill, disconnect the terminals and then tuck them inside the door's reversed hole.

2 Remove the right upper hinge and bottom door limit, then remove the door.

3 Take out the torsion rod from the upper right of the door.

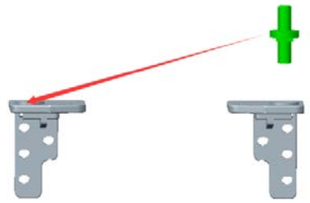


4 Fish out the wiring from door's reversed hole, the wiring stretches out from the upper right of door.



5 Insert the torsion rod into corresponding holes on bottom right of the door.

6 Rotate the door clockwise 180, so the wiring is stretching out from the bottom left of the door.



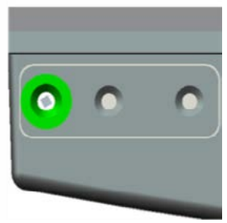
7 Remove the hinge axis from the right bottom hinge, insert it into the left bottom hinge.

DOOR REVERSAL CONT. (for G10f & G12f doors only)

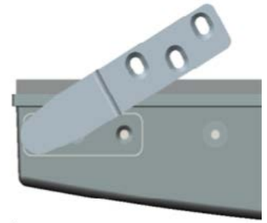
Instructions are as follows:

8 Remove door limit from right hinge into corresponding holes on left hinge.

9 Feed the wiring terminals through the hinge and connect the terminals.



10 Reinstall the torsion rod into the new position of the door axis.

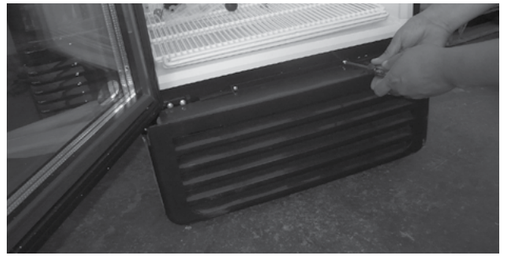


11 Set the upper hinge into the torsion rod at approximately a 60˚ angle. Rotate the hinge to the right counter clockwise aligning the holes in the bracket with the holes on top of the cabinet.

12 Install the limit to the door. Installing sequence:

1. Wave Washer
2. Gasket
3. Limit
4. Bolt

13 Check to ensure the door is securely attached and functioning properly.



14 Attach the front grill to complete the door reversal process.

TROUBLESHOOTING

The following are NOT malfunctions:

Situation	Causes
Liquid flowing noise within cooler	• This is the sound of the cooling agent flowing through the pipes.
Refrigeration system is shutdown for longer periods of time while temperature inside is still very low	• This refrigerator is well insulated and can maintain a relatively ambient temperature.
Condensation on door/lid	• 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.

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:

Issues	Solutions
Cooler is not working properly	Please check power supply: • Check the electrical outlet for power, and that the plug is properly inserted. • Check to see if the circuit breaker is tripped or the fuse is blown. • Check if the condenser is free of dirt and debris. • Check for low voltage
Cooler is not keeping product cool	• Provide ample space between all products to ensure proper circulation of air. • Keep unit away from direct sunlight or other heating source. • Keep the door closed as often as possible. • Be certain the cooler is not touching external objects or walls.
Excessive noise	• Be certain the cooler is placed on a level surface. • Be certain the cooler is not touching external objects or walls.
Compressor turns on and off frequently	• The room temperature is higher than normal. • The door is not closed completely. • The door gasket is not sealed properly. • There is insufficient clearance around the cooler. • The thermostat is not set properly. • The frequency of cycling will be reduced when all of the product reaches the set temperature.

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.

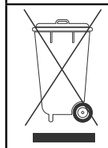
Information to provide to your qualified service professional:

- 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

FLAMMABLE REFRIGERANT WARNING

Special Note: The appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction. Children being supervised not to play with the appliance.

1. During user repair details concerning precautions during user maintenance (instructions shall include information pertaining to the handling, servicing and disposal).
2. Do not store explosive substances such as aerosol cans with a flammable propellant inside the appliance.
3. **WARNING** – Keep clear of obstruction all ventilation openings in the appliance enclosure or in the structure for building-in.
4. **WARNING** – Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
5. **WARNING** – Do not damage the refrigerant circuit.
6. **WARNING** – Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.
7. This appliance uses flammable insulation blowing gas, please dispose of the appliance according to the local regulation
8. Climate Class: 4 (temperature 30%, Humidity 55%).
9. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.
10. Caution: Risk of fire / flammable materials.

11. Correct Disposal of this product	
	This marking idicates that this product should not be disposed of with other household waste throughout the EU. To prevent possible harm to the environment or human health due to uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collections system, or contact the retailer where the product was purchased for instructions on disposal.

SPECIFICATIONS *(the A-weighted emission sound pressure level is below 70 dB(A))*

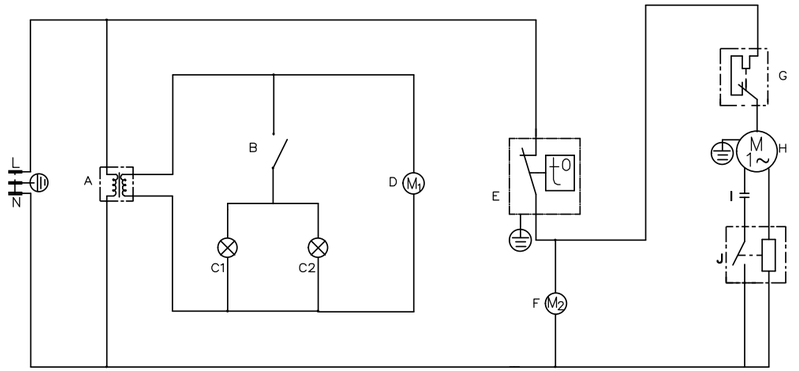
MODEL	VOLUME (L)	RATED VOLTAGE	CLIMATE CLASS	RATED CURRENT	LAMP INPUT POWER	REFRIGERANT
G-9 G-9-N91N* G-9-B91N* G-9-S91N* G-9-P91N*	203	220-240V/50Hz	4	1.5A	5W	R290/40g
GCG-9 GCG-9-B91N* GCG-9-N91N* GCG-9-291N* GCG-9-S91N* GCG-9-W91N* GCG-9-P91N* GCG-9-Z91N*					9W	
G-9 G-9-N31N * G-9-B31N* G-9-S31N*					15W	R290/85g
GCG-9 GCG-9B GCG-9-B31N* GCG-9-N31N* GCG-9-231N* GCG-9-A31N* GCG-9-S31N*						
GCG-9-A91N*						R290/40g
*G,I,M,7,J plug						

MODEL	VOLUME (L)	RATED VOLTAGE	CLIMATE CLASS	RATED CURRENT	LAMP INPUT POWER	REFRIGERANT
G-10, G-10-F31N*	273	220-240V/50Hz	4 (30-55%)	1.7A	10W	R290/100g
GCG-10 GCG-10F31N* GCG-10-F231N* GCG-10-FA31N*					15W	
*G,I,M,7,J plug						

MODEL	VOLUME (L)	RATED VOLTAGE	CLIMATE CLASS	RATED CURRENT	LAMP INPUT POWER	REFRIGERANT
G-12, G-12-F31N*	332	220-240V/50Hz	4	1.7A	10W	R290/105g
GCG-12 GCG-12F31N* GCG-12-F231N* GCG-12-FA31N*					15W	
*G,I,M,7,J plug						

G-9 CIRCUIT DIAGRAM

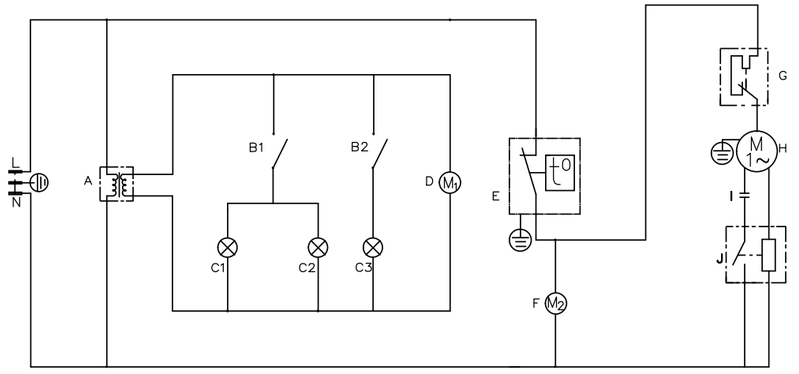
For models: G-9, G-9-N31N *, G-9-B31N*, G-9-S31N*, G-9-N91N*,G-9-B91N*, G-9-S91N*,G-9-P91N* (*G,I,M,7,J plug)



A: Transformer for all Lights & Evaporator Fan
B: On/Off Switch for Light
C1: Interior Top LED Light
C2: Door Side LED Light
D: Evaporator Fan
E: Thermostat
F: Condenser Fan
G: Overload Protector
H: Compressor
I: Start Capacitor
J: Start Relay

GCG-9 CIRCUIT DIAGRAM

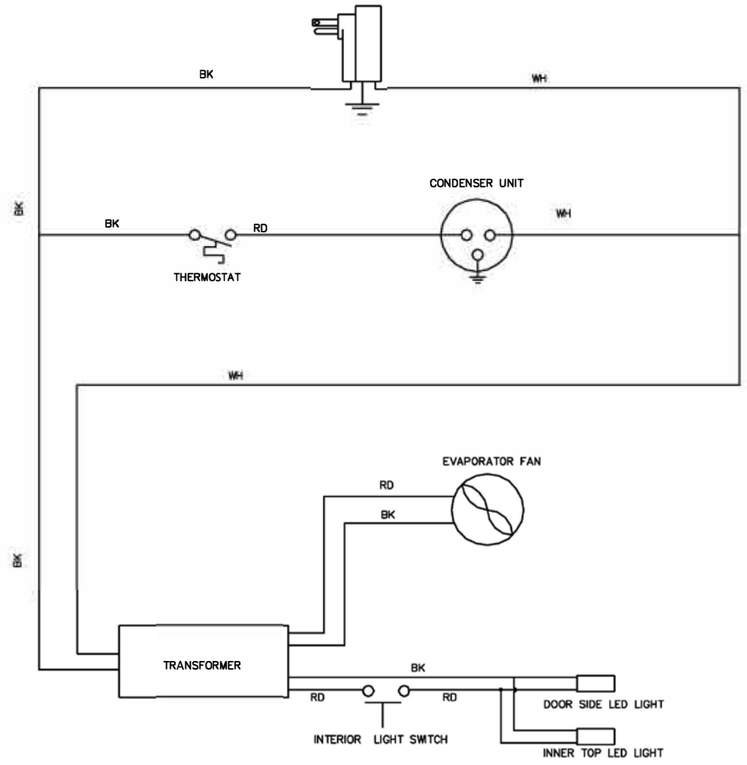
For models: GCG-9, GCG-9B, GCG-9-B31N*, GCG-9-N31N*, GCG-9-231N*, GCG-9-A31N*, GCG-9-S31N*, GCG-9-B91N* GCG-9-N91N*, GCG-9-291N*, GCG-9-S91N*, GCG-9-W91N*, GCG-9-P91N*, GCG-9-Z91N*, GCG-9-A91N* (*G,I,M,7,J plug)

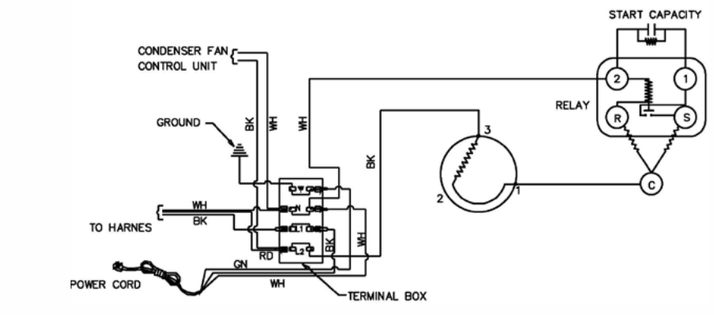


A: Transformer for all Lights & Evaporator Fan
B1: On/Off Switch for Interior Light
B2: On/Off Switch for Lit Door Logo Light
C1: Interior Top LED Light
C2: Door Side LED Light
C3: Logo LED Light
D: Evaporator Fan
E: Thermostat
F: Condenser Fan
G: Overload Protector
H: Compressor
I: Start Capacitor
J: Start Relay

G-9 ELECTRICAL WIRING DIAGRAM

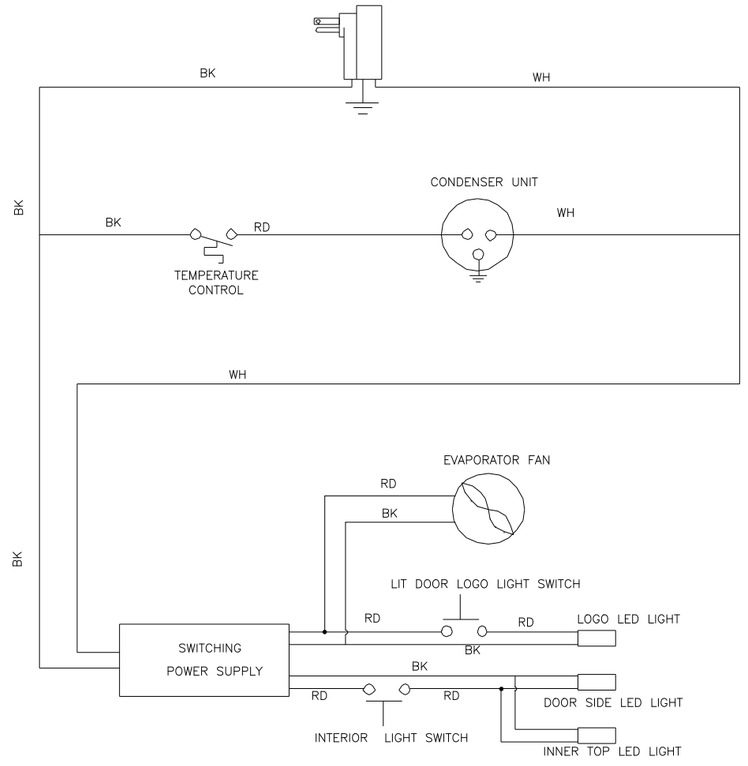
For models: G-9, G-9-N31N *, G-9-B31N*, G-9-S31N*, , G-9-N91N*,G-9-B91N*, G-9-S91N*,G-9-P91N*
(*G,I,M,7,J plug)

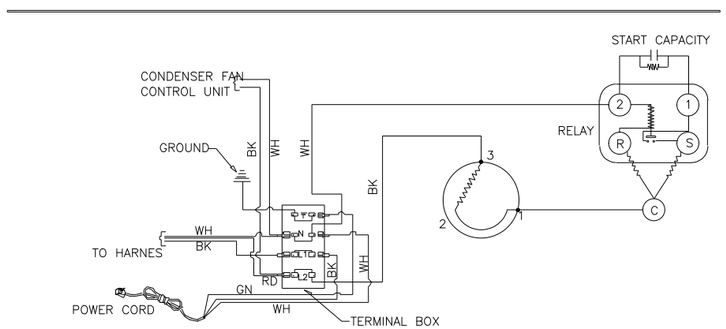




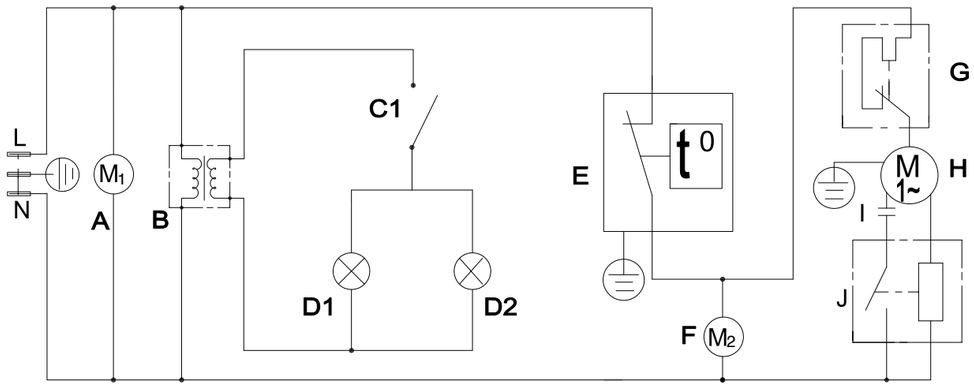
GCG-9 ELECTRICAL WIRING DIAGRAM

For models: GCG-9, GCG-9B, GCG-9-B31N*, GCG-9-N31N*, GCG-9-231N*, GCG-9-A31N*, GCG-9-S31N*, , GCG-9-B91N*
GCG-9-N91N*, GCG-9-291N*, GCG-9-S91N*, GCG-9-W91N*, GCG-9-P91N*, GCG-9-Z91N*, GCG-9-A91N*
(*G,I,M,7,J plug)



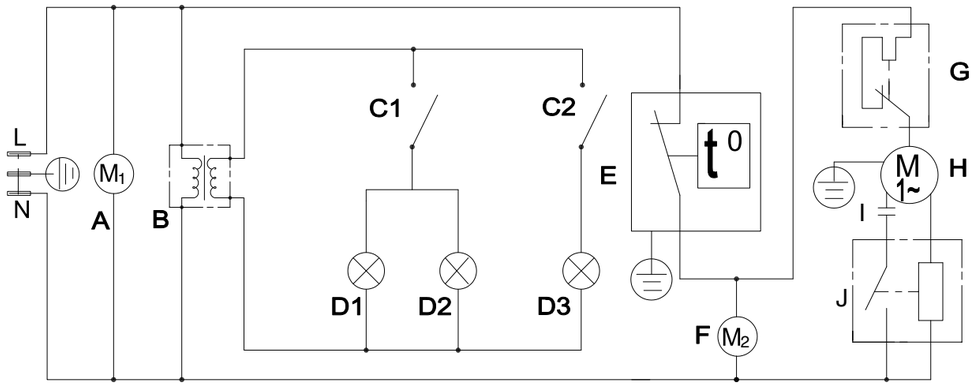


G-10f & G-12f CIRCUIT DIAGRAM



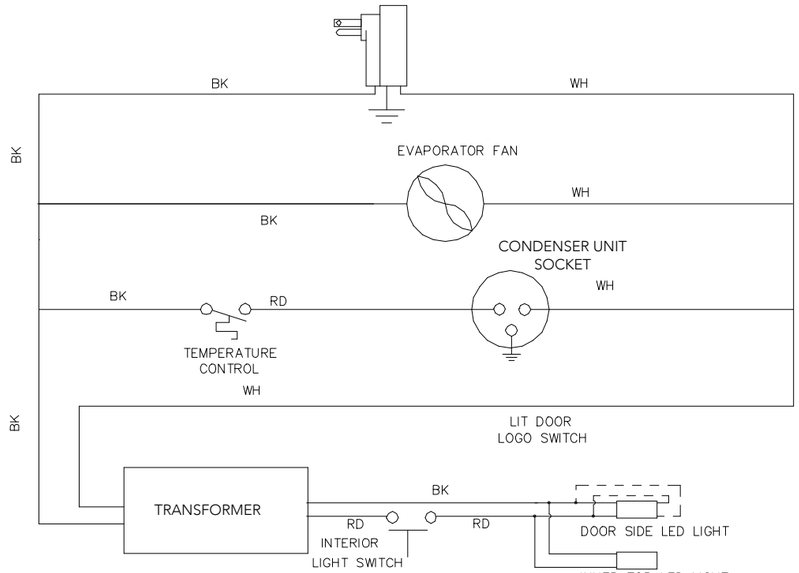
A: Evaporator Fan
B: Transformer for all Lights
C1: On/Off Switch for Interior Light
D1: Interior Top LED Light
D2: Door Side LED Light
E: Thermostat
F: Condenser Fan
G: Overload
H: Compressor
I: Compressor Start Capacitor
J: Relay

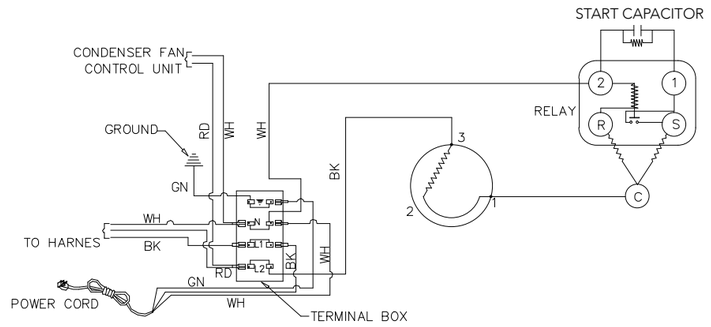
GCG-10f & GCG-12f CIRCUIT DIAGRAM



A: Evaporator Fan
B: Transformer for all Lights
C1: On/Off Switch for Interior Light
C2: On/Off Switch for Lit Door Logo Light
D1: Interior Top LED Light
D2: Door Side LED Light
D3: Logo LED Light
E: Thermostat
F: Condenser Fan
G: Overload
H: Compressor
I: Start Capacitor
J: Relay

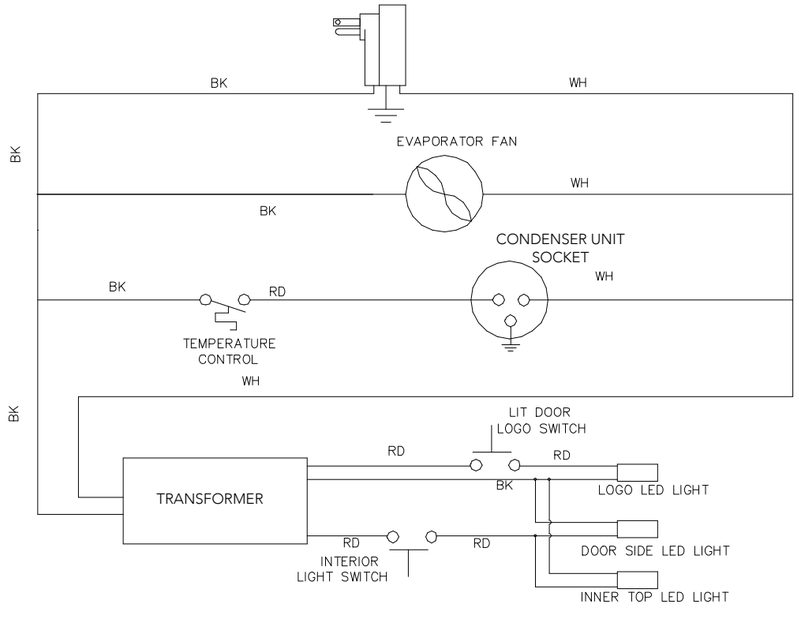
G-10f & G-12f ELECTRICAL WIRING DIAGRAM

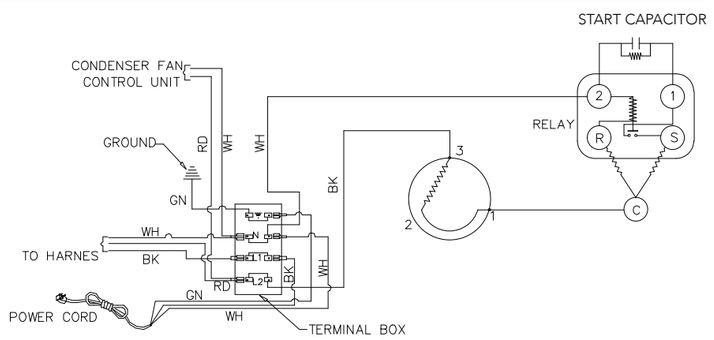




CONNECTIONS FOR COMPRESSOR

GCG-10f & GCG-12f ELECTRICAL WIRING DIAGRAM





CONNECTIONS FOR COMPRESSOR

Innovative DisplayWorks, Inc.
8825 Boston Place, Rancho Cucamonga CA 91730
To locate the distributor in your area go to: *http://www.idw.global/contact/#distributors*