G-Series Cooler

Instruction Manual

GNM-30/GCGNM-30
GNM-36/GCGNM-36

Models: Listed on Inside Cover

GNM-30

GCGNM-30

GNM-36

GCGNM-36

idw
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UL CERTIFIED SA44629 NSF/ANSI 7
ENERGY STAR

G-Series Cooler
Instruction Manual

GNM-30/GCGNM-30
GNM-36/GCGNM-36

GNM-30 Models:
GNM-30-N335B
GNM-30-N335B-2

GNM-36 Models:
GNM-36-N335B
GNM-36-N335B-2

GCGNM-30 Models:
GCGNM-30-N335B
GCGNM-30-N2335B
GCGNM-30-N335B-2
GCGNM-30-N2335B-2

GCGNM-36 Models:
GCGNM-36-N335B
GCGNM-36-N2335B
GCGNM-36-N335B-2
GCGNM-36-N2335B-2

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.

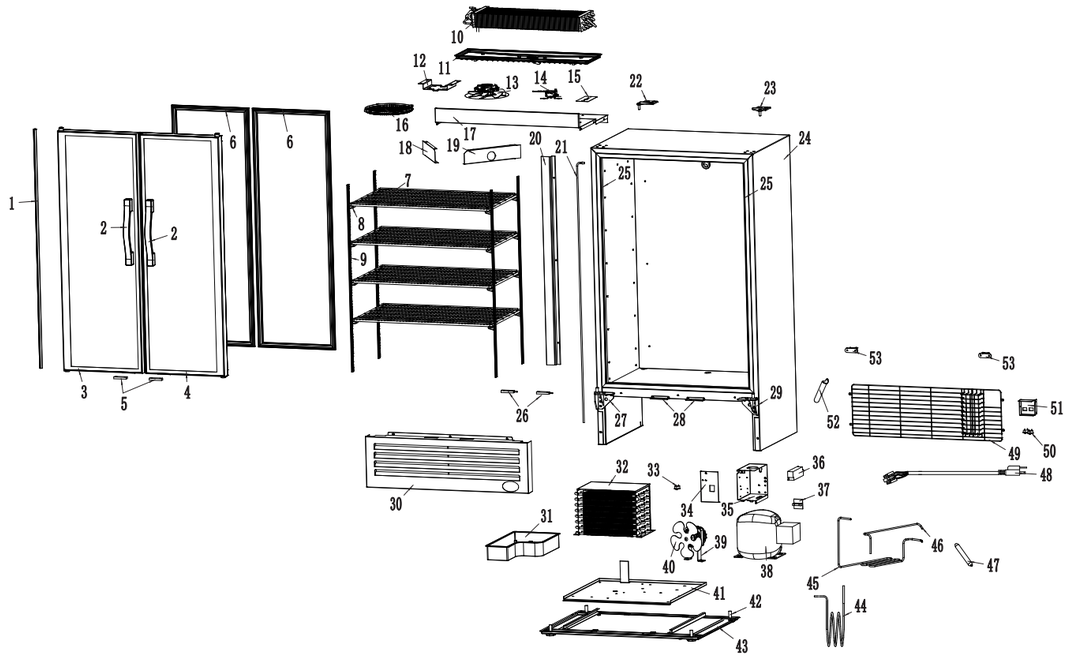
Model #: _____

Serial #: _____

Date of Purchase: _____

PARTS & IDENTIFICATION

All Models



1. Door Center Sealing Gasket
2. Door Handle (2)
3. Left Glass Door
4. Right Glass Door
5. Door Switch on Glass Door (2)
6. Door Gasket (2)
7. Shelf (4)
8. Shelf Clips (16)
9. Pillaster Strips (4)
10. Evaporator
11. Evaporator Drip Pan
12. Fan Support
13. Evaporator Fan
14. Thermostat
15. Thermostat Panel
16. Fan Guard
17. Control Panel
18. Panel to Director Air Flow
19. LED Light
20. Tubing Cover
21. Return Pipe
22. Left Top Hinge
23. Right Top Hinge
24. Foam Cabinet
25. Interior LED Light (2)
26. Magnetic Switch w/ Harness(2)
27. Left Bottom Hinge
28. Magnetic Switch Mount Bracket (2)
29. Right Bottom Hinge
30. Grill
31. Drain Pan
32. Condenser
33. Switch for Cooler
34. Electric Box Cover
35. Electric Box
36. Switching Power Supply
37. Relay PCB
38. Compressor
39. Fan Support
40. Condenser Fan & Fan Blade
41. Upper Baseboard
42. Leveling Leg (4)
43. Lower Baseboard
44. Muffler Connecting Pipe
45. Connecting Tube for Condenser
46. Connecting Tube for Dry Filter
47. Dry Filter
48. Power Cord
49. Compressor Guard
50. Light Switch
51. Bracket for Light Switch
52. Thermometer
53. Bumper Block (2)

SAFETY INSTRUCTIONS

When using this Cooler, always follow the basic safety precautions:

1. Read the entire Instruction Manual before operating this Cooler.
2. Use this Cooler only for its intended purpose as described in this Instruction Manual.
3. This Cooler must be properly installed in accordance with the installation instructions before being used.
4. IDW requires that a dedicated circuit be used for the Cooler. Failure to do so voids warranty.
5. In the case where casters have been installed, the loaded Cooler should be moved for cleaning purposes only. Movement distance should not exceed 2-3ft and must be on a smooth surface.
6. Never unplug your Cooler by pulling on the power cord. Always grasp the plug firmly and pull it straight out from the outlet.
7. Unplug your Cooler before cleaning or making any repairs. ***Note: If for any reason this Cooler 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 Cooler 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 COOLER

PreCaution, 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. For more information please visit: *http://www.epa.gov/osw/hazard/index.htm*

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 80°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 only.
- Place Cooler 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 drain pan.
- Remove plug and cord from inside the lower rear of the Cooler.
- The Cooler should be placed close enough to the electrical supply so that extension cords are not used.

Electrical Requirements

- This model operates with a 110-120V/60Hz 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 Cooler 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!

FLAMMABLE REFRIGERANT WARNING

Special Note: The Cooler 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 Cooler.

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 Cooler.
3. **WARNING** – Keep clear of obstruction all ventilation openings in the Cooler 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 Coolers inside the storage compartments of the Cooler, unless they are of the type recommended by the manufacturer.
7. This Cooler uses flammable insulation blowing gas, please dispose of the Cooler according to the local regulation
8. Climate Class: 4 (temperature 30°C (86°F), 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:** 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.
11. **CAUTION**: Risk of fire / flammable materials. 

12. **Correct Disposal of this product**	
	Help protect the environemnt and human health. Put the packaging in applicable containers to receycle it. Help to recycle waste of electrical and electronic Coolers. Do not dispose of Coolers marked with this symbol with the household waste. Retun the product to your local recycling facility or contact your municipal office.

LEVELING

- This Cooler is intended for use on hard floor surfaces such as vinyl and concrete.
- Set Cooler 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 Cooler should be placed close enough to the electrical supply so that extension cords are never used.

SHELVING INSTALLATION

Securely insert shelf clips into pilasters

Shelf clips should be level so shelf lays flat

GNM30
(Maximum load per shelf is 84 lbs)
GNM36
(Maximum load per shelf is 99 lbs)

Display Coolers 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 Use a screwdriver to pry the light bar out of the slot.

2 Take the light strip out of the slot.

3 Disconnect the connecting terminals of the light strip and remove the light strip.

4 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.

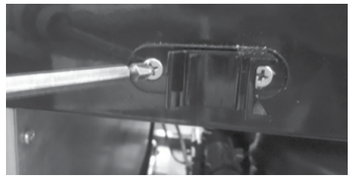
SPECIFICATIONS

MODEL	VOLUME(L)	RATED VOLTAGE	RATED CURRENT	LAMP INPUT POWER	REFRIGERANT
GNM-30-N335B GNM-30-N335B-2	11.27 ft³	110-120V/60Hz	2.7A	5.6 W	R290/85gm
GCGNM-30-N335B GCGNM-30-N2335B GCGNM-30-N335B-2 GCGNM-30-N2335B-2				10.4 W	
NSF/ASNI-7: Type II Display Refrigerator	A Display Cooler 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) and environment ≤65% RH (Relative Humidity).				

MODEL	VOLUME(L)	RATED VOLTAGE	RATED CURRENT	LAMP INPUT POWER	REFRIGERANT
GNM-36-N335B GNM-36-N335B-2	13.42 ft³	110-120V/60Hz	2.7A	5.6 W	R290/85gm
GCGNM-36-N335B GCGNM-36-N2335B GCGNM-36-N335B-2 GCGNM-36-N2335B-2				10.4 W	
NSF/ASNI-7: Type II Display Refrigerator	A Display Cooler 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) and environment ≤65% RH (Relative Humidity).				

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.

OPERATION AND TEMPERATURE ADJUSTMENT

Operation

- Prior to stocking Cooler with product, it should be operated empty for half an hour.
- This equipment is intended to maintain temperatures between 34-44˚F. Intended products for this equipment is for non-potentially-hazardous bottled or canned items only.

Temperature Adjustment

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

Switch Operation for all models

There will be at least one switch located on the back of the cooler that controls the interior LED lights. On GCG models, there will be a second switch in the same location which controls an illuminated door logo and/or an LED Floor Projector.

Button for Changing Motion Door Logo Modes for some "GCG" Models

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. It is required to 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.

1 Remove the screws from the front grill.

2 The front grill can now be removed by pulling it out.

3 Remove the bottom plate set screws from the upper compressor.

4 Pull out the bottom plate of the compressor and use a soft-bristled brush to clean the dust from the condenser.

5 After the condenser is cleaned, follow the reverse steps to replace it.

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 Cooler. ***If*** a display Cooler 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.

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 Cooler 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 Cooler has been designed and manufactured according to National standards. If there are any questions during use, refer to this Instruction 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 behaving abnormally or no longer cooling	Unplug the Cooler from the outlet and contact a trained service technician for repair: • Abnormal behavior includes Cooler tripping the circuit breakers or blown fuse. • Cooler not cooling to the set temperature as it should. • If you can detect a chard smoky burning plastic rubber type of a smell. • A noticeable increase in product temperature.
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 Cooler 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

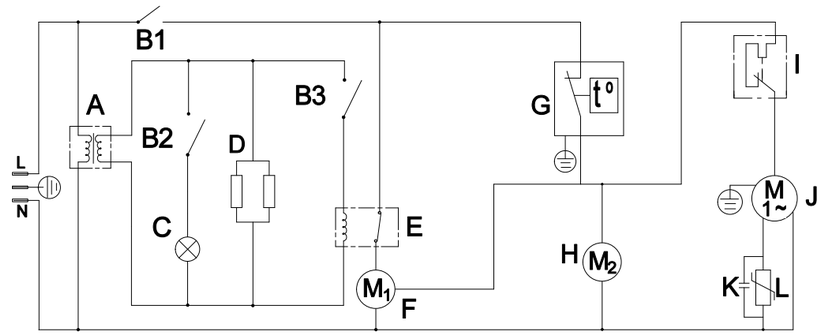
Any product has the possibility of malfunction. Please observe the Cooler's operation and any changes to product being stored. If there are any abnormal cases, refer to the table below. If there is still no change after following the below instructions, please inform our service center in a timely manner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

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 of 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

ELECTRICAL CURCUIT DIAGRAM

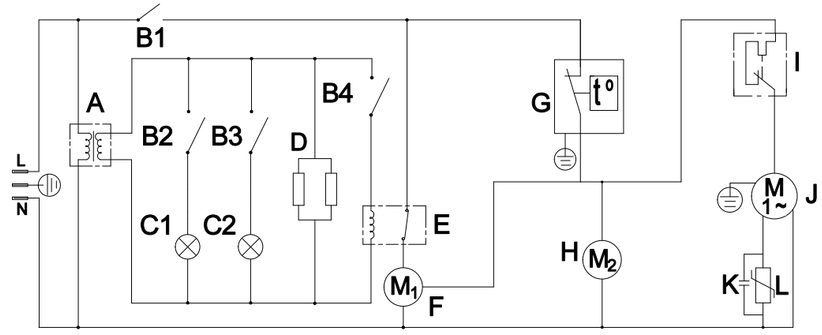
FOR MODELS: GNM-30-N335B, GNM-30-N335B-2, GNM-36-N335B, GNM-36-N335B-2



A: Power Supply for LED Lights & Relay
B1: On/Off Switch for Refrigeration
B2: On/Off Switch for Interior LED Light
B3: Door Switch
C: Interior LED Light
D: Door Heater
E: Relay
F: Evaporator Fan
G: Thermostat
H: Condenser Fan
I: Overload for Compressor
J: Compressor
K: Compressor Running Capacitor
L: Compressor PTC

ELECTRICAL CURCUIT DIAGRAM

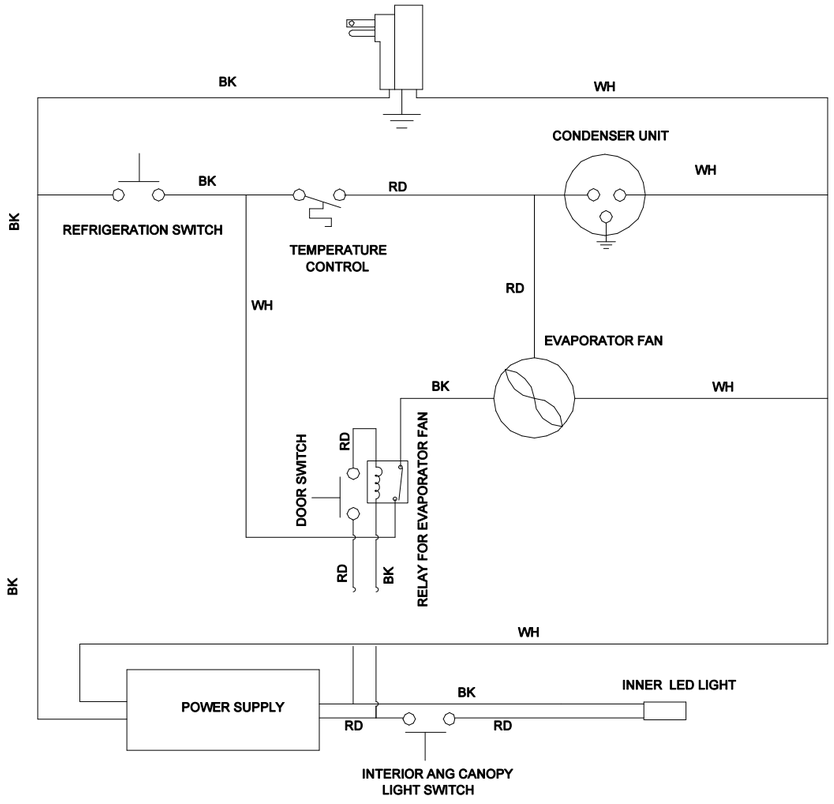
FOR MODELS: GCGNM-30-N335B, GCGNM-30-N2335B, GCGNM-30-N335B-2, GCGNM-30-N2335B-2, GCGNM-36-N335B, GCGNM-36-N2335B, GCGNM-36-N335B-2, GCGNM-36-N2335B-2

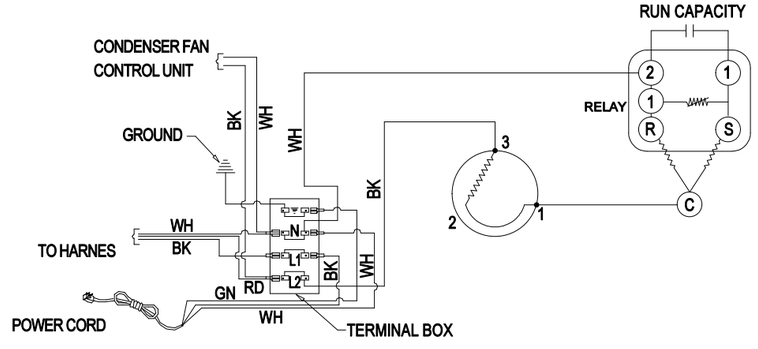


A: Power Supply for LED Lights & Relay
B1: On/Off Switch for Refrigeration
B2: On/Off Switch for Interior LED Light
B3: On/Off Switch for Lit Door Logo Light
B4: Door Switch
C1: Interior LED Light
C2: Door Logo LED Light
D: Door Heater
E: Relay
F: Evaporator Fan
G: Thermostat
H: Condenser Fan
I: Overload for Compressor
J: Compressor
K: Compressor Running Capacitor
L: Compressor PTC

ELECTRICAL WIRING DIAGRAM

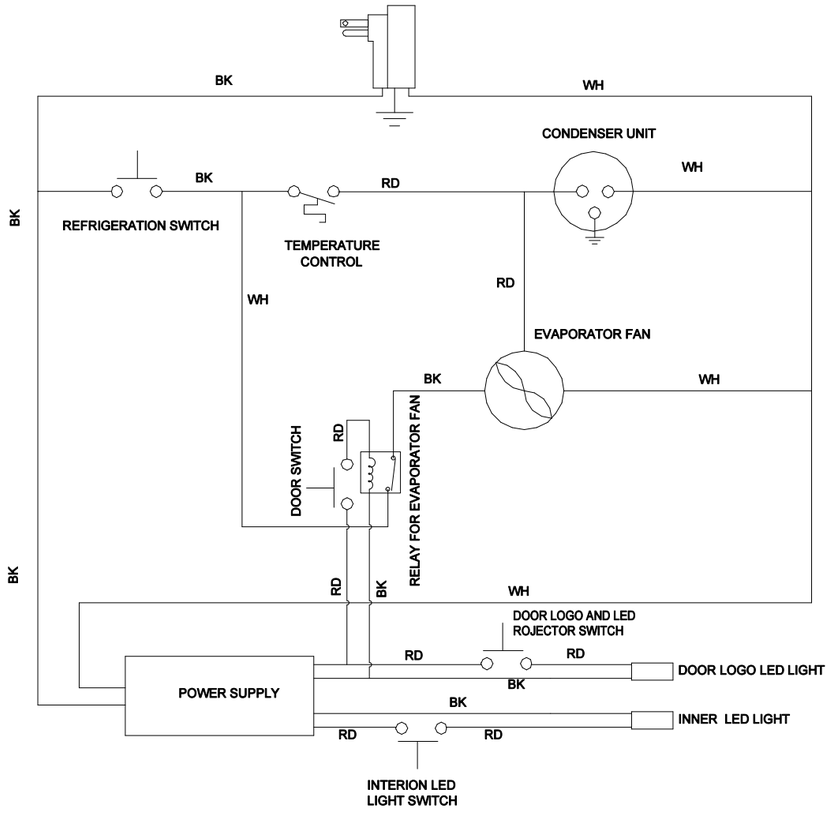
FOR MODELS: GNM-30-N335B, GNM-30-N335B-2, GNM-36-N335B, GNM-36-N335B-2

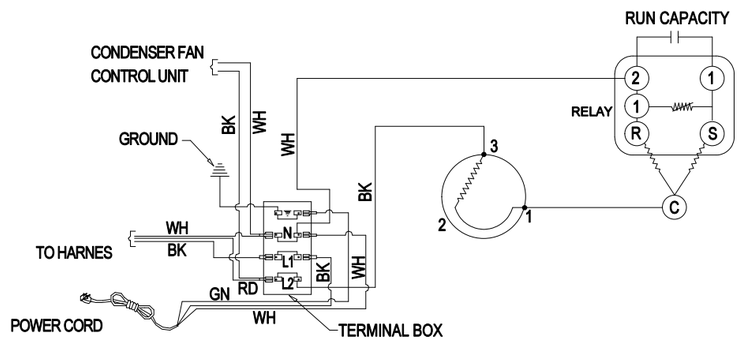




ELECTRICAL WIRING DIAGRAM

FOR MODELS: GCGNM-30-N335B, GCGNM-30-N2335B, GCGNM-30-N335B-2, GCGNM-30-N2335B-2, GCGNM-36-N335B, GCGNM-36-N2335B, GCGNM-36-N335B-2, GCGNM-36-N2335B-2





Innovative DisplayWorks, LLC
8825 Boston Place, Rancho Cucamonga CA 91730