



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

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## **Service, Installation and Care Manual**

**Please read this manual completely before attempting to install or operate this equipment.  
Notify carrier of damage! Inspect all components immediately.**



IMPORTANT INFORMATION  
READ BEFORE USE  
PLEASE SAVE THESE INSTRUCTIONS!

## **COMMERCIAL REFRIGERATOR SAFETY**

**Your safety and the safety of others are very important.**

We have provided many important safety messages in this manual and on your appliance. Always read and obey all safety messages. Valpro product manuals and additional product information is available at our website: [www.valprorefrigeration.com](http://www.valprorefrigeration.com)



This is the Safety Alert Symbol. This symbol alerts you to potential hazards that can kill or injure you and others. All safety messages will follow the Safety Alert Symbol and either the words "DANGER", "WARNING" or "CAUTION".



Danger means that failure to heed this safety statement may result in severe personal injury or death.



Warning means that failure to heed this safety statement may result in extensive product damage, serious personal injury, or death.



Caution means that failure to heed this safety statement may result in minor or moderate personal injury, or property or equipment damage.

- Safety messages will alert you to potential hazards, advise to reduce the chance of injury, and let you know what can happen if the instructions are not followed.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or individuals who lack experience and knowledge for the safe operation and maintenance. All operators must receive instruction for use and maintenance of the appliance by a person responsible for their safety who understand the potential hazards.
- Children should be supervised to ensure that they do not play with the appliance.
- Cleaning and user maintenance shall not be performed by individuals without knowledge of the operating system and the potential hazards involved.
- Extension cords should not be used with this appliance and the cord should be out of reach of children.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.

The appliance use flammable insulation blowing gas C5H10, disposal of the appliance shall in accordance with the regulations of local authorities.

The key for appliance electric box should be safe kept by qualified persons in order to avoid a hazard



Warning; Risk of fire / flammable materials

**WARNING:** Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.

**WARNING:** Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.

**WARNING:** Do not damage the refrigerant circuit.

**WARNING:** Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.

Exercise care handling, moving, and use of the refrigerator or freezer to avoid either damaging the refrigerant tubing, or increasing the risk of a leak.

L'opération, le mouvement et l'utilisation du réfrigérant ou le congélateur doivent éviter les dommages du tuyau réfrigérant ou le risque de la fuite.

**Caution – Risk of Fire or Explosion due to Flammable Refrigerant Used. Follow Handling Instructions Carefully in Compliance with U.S. Government Regulations.**

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.

Les pièces de rechange doivent être remplacées par les composants relatifs et les opérations doivent être faites par les professionnels afin de minimiser le risque d'allumage à cause des parts incorrects ou des opérations impropres.

**CAUTION – Risk Of Fire Or Explosion Due To Puncture Of Refrigerant Tubing; Follow Handling Instructions Carefully. Flammable Refrigerant Used**

**DANGER:** Risk of child entrapment. Before you throw away your old refrigerator or freezer:

Take off the doors

Leave the shelves in place so that children may not easily climb inside.

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## SERIAL NUMBER INFORMATION

The serial number of all self-contained refrigerators and freezers is located inside the unit on the left hand side near the top on the wall.

Always have the serial number of your unit available when calling for parts or service.

This manual covers standard units only.

## RECEIVING AND INSPECTING THE EQUIPMENT

Even though most equipment is shipped crated, care should be taken during unloading so the equipment is not damaged while being moved into the building.

1. Visually inspect the exterior of the package and skid or container. Any damage should be noted and reported to the delivering carrier immediately.
2. If damaged, open and inspect the contents with the carrier.
3. In the event that the exterior is not damaged, yet upon opening, there is concealed damage to the equipment notify the carrier. Notification should be made verbally as well as in written form.
4. Request an inspection by the shipping company of the damaged equipment. This should be done within 10 days from receipt of the equipment.
5. Be certain to check the compressor compartment housing and visually inspect the refrigeration package. Be sure lines are secure and base is still intact.
6. Freight carriers can supply the necessary damage forms upon request.
7. Retain all crating material until an inspection has been made or waived.



## SPECIFICATION

### SWING GLASS DOOR REFRIGERATORS

MODEL#	V/Hz/Ph	AMPS	STORAGE CAPACITY Cu-ft	HP	BTU	CHARGE OZ	SHIP WEIGHT LBS	NEMA PLUG
VP1R-23HC	115/60/1	3	23	1/5	1670	3.0	331	5-15P
VP2R-48HC	115/60/1	4.5	48	1/4	2380	3.7	540	5-15P
VP3R-72HC	115/60/1	7.5	72	1/2	3200	5.29	741	5-15P

### SWING GLASS DOOR FREEZERS

MODEL#	V/Hz/Ph	AMPS	STORAGE CAPACITY Cu-ft	HP	BTU	CHARGE OZ	SHIP WEIGHT LBS	NEMA PLUG
VP1F-23HC	115/60/1	8	23	1/2	2000	3.88	353	5-15P
VP2F-48HC	115/60/1	9	48	1	3650	5.29	567	5-20P
VP2F-48FDVHC	115/208-230/60/1	6.5	48	1	3650	5.29	567	L14-20P
VP3F-72FDVHC	115/208-230/60/1	9	72	1/1-4	4500	5.29	776	L14-20P

### SLIDING GLASS DOOR REFRIGERATOR

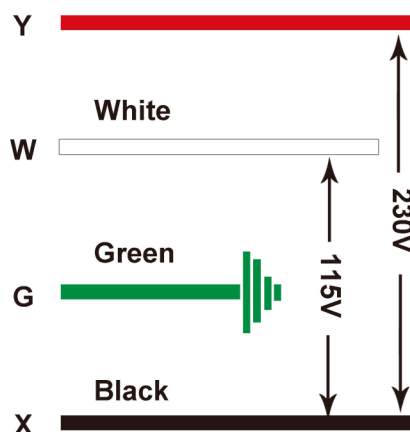
MODEL#	V/Hz/Ph	AMPS	STORAGE CAPACITY Cu-ft	HP	BTU	CHARGE OZ	SHIP WEIGHT LBS	NEMA PLUG
VP2R-48LHC	115/60/1	4.5	48	1/4	2380	3.7	540	5-15P

## WARNING!!!

*Read Before Plugging in VP2F-48FDVHC & VP3F-72FDVHC*

VP2F-48FDVHC & VP3F-72FDVHC HAVE A 230/115/60/1 VOLTAGE CONFIGURATION AND COME WITH A NEMA L14-20P PLUG. YOU MUST HAVE A CERTIFIED ELECTRICIAN WIRE THE OUTLET TO ACCEPT A 230/115/60/1 NEMA L14-20P PLUG. THIS UNIT WILL NOT WORK ON A 230/60/1 OUTLET. IT REQUIRES A 230/115/60/1 OUTLET. VALPRO IS NOT RESPONSIBLE FOR REFRIGERATION ISSUES OR DAMAGED COMPONENTS CAUSED BY IMPROPER INSTALLATION OR INCORRECT OUTLET WIRING CONFIGURATIONS

**CORRECT  
CONFIGURATION:  
NEMA L14-20P  
230/115/60/1**



## SPECIFICATION

### SWING GLASS DOOR REFRIGERATORS

MODEL#	V/Hz/Ph	AMPS	STORAGE CAPACITY Cu-ft	HP	BTU	CHARGE OZ	SHIP WEIGHT LBS	NEMA PLUG
VP1R-23M	115/60/1	3	23	1/5	1670	3.0	331	5-15P
VP2R-48M	115/60/1	4.5	48	1/4	2380	3.7	540	5-15P
VP3R-72M	115/60/1	7.5	72	1/2	3200	5.29	741	5-15P

### SWING GLASS DOOR FREEZERS

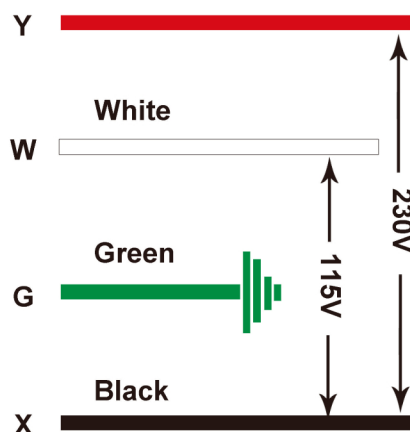
MODEL#	V/Hz/Ph	AMPS	STORAGE CAPACITY Cu-ft	HP	BTU	CHARGE OZ	SHIP WEIGHT LBS	NEMA PLUG
VP1F-23M	115/60/1	8	23	1/2	2000	3.88	353	5-15P
VP2F-48M	115/60/1	9	48	1	3650	5.29	567	5-15P
VP3F-72MDV	115/208-230/60/1	9	72	1/1-4	4500	5.29	776	L14-20P

## WARNING!!!

*Read Before Plugging in VP2F-48FDVHC & VP3F-72FDVHC*

VP2F-48FDVHC & VP3F-72FDVHC HAVE A 230/115/60/1 VOLTAGE CONFIGURATION AND COME WITH A NEMA L14-20P PLUG. YOU MUST HAVE A CERTIFIED ELECTRICIAN WIRE THE OUTLET TO ACCEPT A 230/115/60/1 NEMA L14-20P PLUG. THIS UNIT WILL NOT WORK ON A 230/60/1 OUTLET. IT REQUIRES A 230/115/60/1 OUTLET. VALPRO IS NOT RESPONSIBLE FOR REFRIGERATION ISSUES OR DAMAGED COMPONENTS CAUSED BY IMPROPER INSTALLATION OR INCORRECT OUTLET WIRING CONFIGURATIONS

**CORRECT  
CONFIGURATION:  
NEMA L14-20P  
230/115/60/1**



## INSTALLATION

### Location

Units represented in this manual are intended for indoor use only. Be sure the location chosen has a floor strong enough to support the total weight of the cabinet and contents. A fully loaded unit can weigh as much as 1500 pounds. Reinforce the floor as necessary to provide for maximum loading. For the most efficient refrigeration, be sure to provide good air circulation inside and out.

### Inside cabinet:

Do not pack refrigerator so full that air cannot circulate. The refrigerated air is discharged at the top rear of the unit. It is important to allow for proper air flow from the top rear to the bottom of the unit. Obstructions to this air flow can cause evaporator coil freeze ups and loss of temperature or overflow of water from the evaporator drain pan. The shelves have a rear turn up on them to prevent this. However, bags and other items can still be located to the far rear of the cabinet. Air is brought into the evaporator coil with fans mounted to the front of the coil. Prevent obstruction by locating large boxes and tall stacks of product to the bottom of the cabinet.

### Outside cabinet:

Be sure that the unit has access to ample air. Avoid hot corners and locations near stoves and ovens. It is recommended that the unit be installed no closer than 2" from any wall with at least 12" of clear space above the unit. Should it become necessary to lay the unit on its side or back for any reason, allow at least 24 hours before start-up so as to allow compressor oil to flow back to the sump. Failure to meet this requirement can cause compressor failure and unit damage.

### Leveling

A level cabinet looks better and will perform better because the doors will line up with the frames properly, the cabinet will not be subject to undue strain and the contents of the cabinet will not move around on the shelves. Use a level to make sure the unit is level from front to back and side to side. Units supplied with legs will have adjustable bullet feet to make the necessary adjustments. If the unit is supplied with casters, no adjustments are available. Ensure the floor where the unit is to be located is level.

### Stabilizing

Models are supplied on casters for your convenience, ease of cleaning underneath and for mobility. It is very important, however, that the cabinet be installed in a stable condition with the front wheels locked while in use.



**Standard warranties will be voided due to improper installation procedures.**

### Electrical connection

Refer to the amperage data on page 3, the serial tag, your local code or the National Electrical Code to be sure the unit is connected to the proper power source. A protected circuit of the correct voltage and amperage must be run for connection of the line cord, or permanent connection to the unit.



**The ON/OFF switch must be turned to OFF and the unit disconnected from the power source whenever performing service, maintenance functions or cleaning the refrigerated area.**

## OPERATION



### CAUTION

**Do not throw items into the storage area. Failure to heed these recommendations could result in damage to the interior of the cabinet.**

### Refrigeration cycle

**Refrigerators:** Every 6 hours, the unit will turn off to let the evaporator coil clear up the ice. The controller now displays the defrost symbol. When the coil temperature reaches 41°F or after 20 minutes of defrost, the unit will turn on again. The factory setting of the temperature range is 34°F to 38°F.

**Freezers:** During the refrigeration cycle, the controller supplies power to the condensing unit and evaporator fan motors. The evaporator fan will run at any time when the evaporator coil temperature is below 54°F and it will cycle off during the defrost period. Every 6 hours, the unit will turn off and the defrost heater will work to clear up the ice. The controller now displays the defrost symbol. When the coil temperature reaches 45°F or after 20 minutes of defrost, the unit will turn on again.

1. Anti-Condensation heaters on the door frames work in conjunction with the compressor.
2. The factory setting of the temperature range is -7°F to -3°F

### Light Switch:

A light switch is located next to the on/off switch on the front of the bottom panel.


## SOLID-STATE THERMOSTAT DESCRIPTIONS


### 1. FRONT PANEL COMMANDS

#### 1.1 KEY FUNCTION



**SET:** To display target set point; in programming mode, it selects a parameter or confirms an operation.

 **(DEF)** To start a manual defrost

 **(UP)** To view last alarm occurrence; in programming mode, it browses the parameter codes or increases the display value


 **(DOWN)** To view last alarm occurrence; in programming mode, it browses the parameter codes or decreases the display value

#### KEY COMBINATION

 +  To lock & unlock the keyboard






**SET** +  To enter in programming mode

**SET** +  To return to the room temperature display

 To switch the instrument off.



## 1.2 Function of LEDS

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

	Symbol LED Indicator	Function	LED Mode	LED Indication
①	FAN	Indicates the fans are running.	On	Fans enabled.
			Flashing	Fans delay after defrost in progress
②	DEFROST INDICATOR	Defrost status.	On	Defrost enabled.
			Flashing	⇒ Programming phase ( Indicators flashing) ⇒ Drip time in progress
③	COMPRESSOR	Indicates the compressor is running.	On	Compressor enabled.
			Flashing	⇒ Programming phase ( Indicators flashing) ⇒ Anti-short cycle delay enabled.
④	UP ARROW	⇒ Display last temperature alarm ⇒ <b>In programming mode</b> — browse parameter codes. ⇒ <b>In programming mode</b> — increase the displayed value.		
⑤	DOWN ARROW	⇒ Display last temperature alarm ⇒ <b>In programming mode</b> — browse parameter codes. ⇒ <b>In programming mode</b> — decrease the displayed value.		
⑥	ALARM	Indicates a temperature alarm.	On	A temperature alarm happened.
⑦	DISPLAY	⇒ Display room temperature. ⇒ Display set points ⇒ Display alarm codes.		
⑧	DEFROST BUTTON	Start a manual defrost.		
⑨	SET	⇒ Display a target set point. ⇒ <b>Select a parameter</b> (In programming mode). ⇒ <b>Confirm an operation</b> (In programming mode).		

## 2. MAIN FUNCTIONS

### 2.1 HOW TO SEE THE SETPOINT

1. Push and immediately release the **SET** key: the display will show the set point value.
2. Push and immediately release the **SET** key or wait for 5 seconds to display the sensor value again.

### 2.2 HOW TO CHANGE THE SETPOINT

1. Hold 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 ❄️ LED starts blinking.
3. To change the set value push the ▲ or ▼ key within 10s.
4. To set a new point value, push the SET key again or wait 10s.



### 2.3 HOW TO START A MANUAL DEFFROST

Push the ❄️ key for more than 2 seconds and a manual defrost will start



### 2.4 HOW TO LOCK THE KEYBOARD

1. Hold the ▲ and ▼ keys for more than 3s.
2. The "POF" message will be displayed and the keyboard will be locked. At this point, it will be possible only to see the set point or the MAX or Min temperature stored.
3. If a key is pressed more than 3s, the "POF" message will be displayed.



### 2.5 HOW TO UNLOCK THE KEYBOARD

Hold the ▲ and ▼ keys together for more than 3s till the "POF" message is displayed.

## 3. ALARM SIGNALS

### HOW TO SEE THE ALARM AND RESET THE RECORDED ALARM

1. Push the ▲ or ▼ key to display alarm signals.
2. When the signal is displayed, hold the **SET** key until the "rst" message is displayed, and push the **SET** key again. The "rst" message will start blinking and the normal temperature will be displayed again.

Message	Cause	Outputs
"P1"	Room probe failure	Compressor output according to par. "Con" and "COF"
"P2"	Evaporator probe failure	Defrost end is timed
"HA"	Maximum temperature alarm	Outputs unchanged.
"LA"	Minimum temperature alarm	Outputs unchanged.
"dA"	Door open	Compressor and fans restarts
"EA"	External alarm	Output unchanged.
"CA"	Serious external alarm (i1F=bAL)	All outputs OFF.
"CA"	Pressure switch alarm (i1F=PAL)	All outputs OFF

## MAINTENANCE



**The power must be turned OFF and the unit disconnected from the power source whenever performing service, maintenance functions or cleaning the refrigerated area.**

### Refrigerators and Freezers

The interior and exterior can be cleaned using soap and warm water. If this isn't sufficient, try ammonia and water or a nonabrasive liquid cleaner. When cleaning the exterior, always rub with the "grain" of the stainless steel to avoid marring the finish.

Do not use an abrasive cleaner because it will scratch the stainless steel and plastic and can damage the breaker strips and gaskets.

### Cleaning the Condenser Coil

The condenser coil requires regular cleaning. Recommended cleaning is every 90 days. In some instances, you may find that there is a large amount of debris and dust or grease accumulated prior to the 90 day time frame. In these cases the condenser coil should be cleaned every 30 days.

If the build up on the coil consists of only light dust and debris, the condenser coil can be cleaned with a simple brush. Heavier dust build-up may require a vacuum or even compressed air to blow through the condenser coil.

If heavy grease is present, there are de-greasing agents available for refrigeration use and specifically for the condenser coils. The condenser coil may require a spray with the de-greasing agent and then blown through with compressed air.

Failure to maintain a clean condenser coil can initially cause high temperatures and excessive run times. Continuous operation with dirty or clogged condenser coils can result in compressor failures. Neglecting the condenser coil cleaning procedures will void any warranties associated with the compressor or cost to replace the compressor.



**Never use a high pressure water wash for this cleaning procedure as water can damage the electrical components located near or at the condenser coil.**

In order to maintain proper refrigeration performance, the condenser fins must be cleaned of dust, dirt and grease regularly. It is recommended that this be done at least every three months. If conditions are such that the condenser is totally blocked in three months, the frequency of cleaning should be increased. Clean the condenser with a vacuum cleaner or stiff brush. If extremely dirty, a commercial-grade condenser cleaner may be required.

### Stainless Steel Care and Cleaning

To prevent discoloration of rust on stainless steel several important steps need to be taken. First, we need to understand the properties of stainless steel. Stainless steel contains 70-80% iron which will rust. It also contains 12-30% chromium which forms an invisible passive film over the steel's surface which acts as a shield against corrosion. As long as the protective layer is intact, the metal is still stainless. If the film is broken or contaminated, outside elements can begin to breakdown the steel and begin to form rust or discoloration. Proper cleaning of stainless steel requires soft cloths or plastic scouring pads.



## MAINTENANCE



**DANGER**

### **NEVER USE STEEL PADS, WIRE BRUSHES OR SCRAPERS!**

Cleaning solutions need to be alkaline based or non-chloride based. Any cleaner containing chlorides will damage the protective film of the stainless steel. Chlorides are commonly found in hard water, salts, and household and industrial cleaners. If cleaners containing chlorides are used, be sure to rinse repeatedly and dry thoroughly.

Routine cleaning of stainless steel can be done with soap and water. Extreme stains or grease should be cleaned with a non-abrasive cleaner and plastic scrub pad. It is always good to rub with the grain of the steel. There are also stainless steel cleaners available which can restore and preserve the finish of the steels protective layer.

Early signs of stainless steel breakdown can consist of small pits and cracks. If this has begun, clean thoroughly and start to apply stainless steel cleaners in attempt to restore the passivity of the steel.



**CAUTION**

**Never use an acid based cleaning solution! Many food products have an acidic content which can deteriorate the finish. Be sure to clean the stainless steel surfaces of ALL food products.**

### **Gasket Maintenance**

Gaskets require regular cleaning to prevent mold and mildew build up and also to keep the elasticity of the gasket. Gasket cleaning can be done with the use of warm soapy water. Avoid full strength cleaning products on gaskets as this can cause them to become brittle and prevent proper seals. Never use sharp tools or knives to scrape or clean the gasket which could possibly tear the gasket and rip the bellows.

Gaskets can easily be replaced and don't require the use of tools or authorized service technicians. The gaskets are "Dart" style and can be pulled out of the groove in the door and replaced by pressing the new one back into place.

### **Doors/Hinges**

Over time and with heavy usage, door hinges may become loose. If the door begins to sag, tighten the screws that mount the hinge brackets to the frame of the unit. If the doors are loose or sagging, this can cause the hinge to pull out of the frame which may damage to both the doors and the door hinges. In some cases, a qualified service agent or maintenance personnel is required to do this.

### **Drain Maintenance**

Each unit has a drain located inside the unit which removes the condensation from the evaporator coil and and drains the excess water into an evaporator pan. Each drain can become loose or disconnected from moving or bumping the drain. If you notice excessive water accumulation on the inside of the unit, be sure the drain tube is connected from the evaporator housing to the condensate evaporator drain pan. If water is collected underneath the unit you may want to check the condensate evaporator drain tube to be sure it is still located inside the drain pan. The leveling of the unit is important as the units are designed to drain properly when on a level surface, if your floor is not level this can also cause drain problems. Be sure all drain lines are free of obstructions because obstructions may cause water to back up and overflow the drain pans.

## MAINTENANCE

### Swing Door Replacement and Adjustment

1. Open the bottom panel and hold the door. Then loosen the bottom hinge screw and take off the old door.
2. Prepare new door; insert top pin into top hinge, get one bottom hinge to hold the door with the bottom pin. Fasten bottom hinge securely to the door frame with three screws.
3. Allow the door to freely swing, making sure it swings closed by itself with no restriction.
4. Plug the unit in and make sure the lock works well.
5. If not, adjust the door height by adding the plastic spacer/washer provided with the bottom hinge pin.

### Sliding Door Replacement and Adjustment

1. Take off the hook of the counterweight of door from the top of the door.
2. Hold the door up until the bottom edge is over the channel. Move the door out across the channel and lay the door down.
3. Prepare new door; hold the door insert into top channel until the bottom edge is over the bottom channel. Slide the bottom of the door across the channel wall and place it into the channel.

### Remove the bottom panel

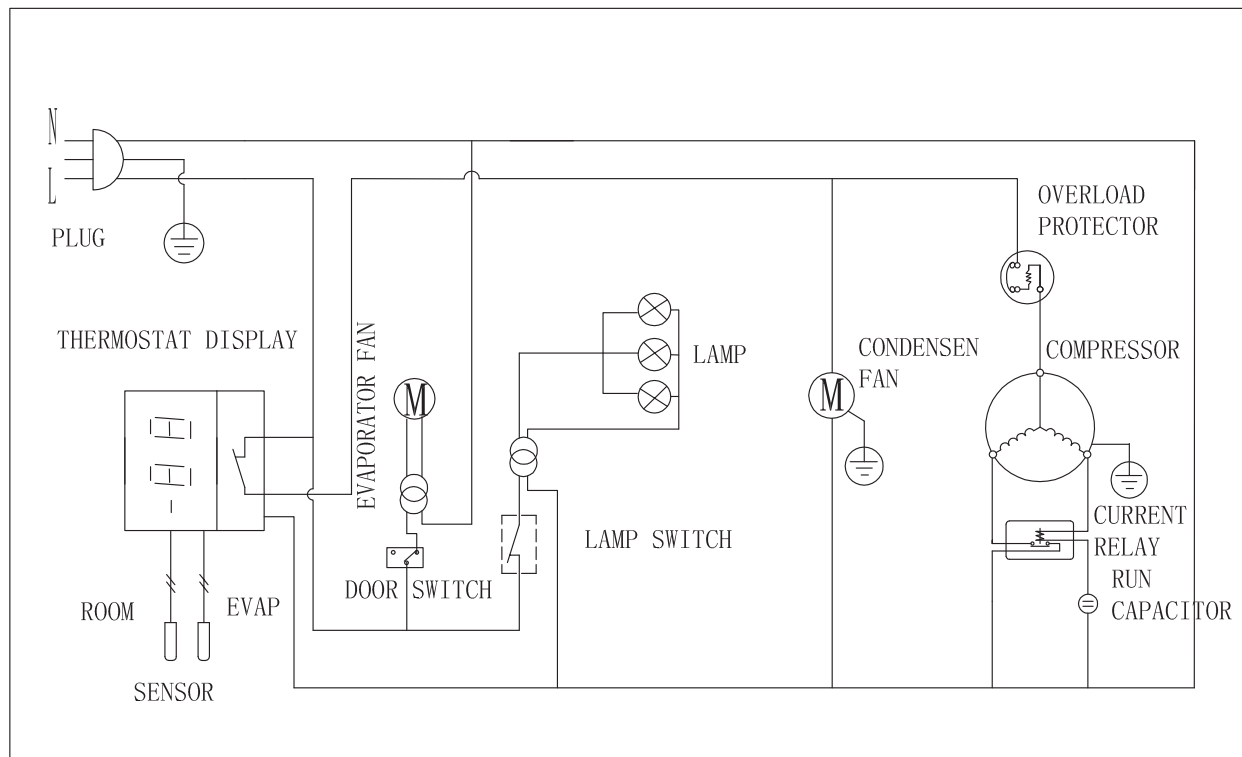
Loosen and remove the top screws, slide the panel up and out

### Light Bulb Replacement

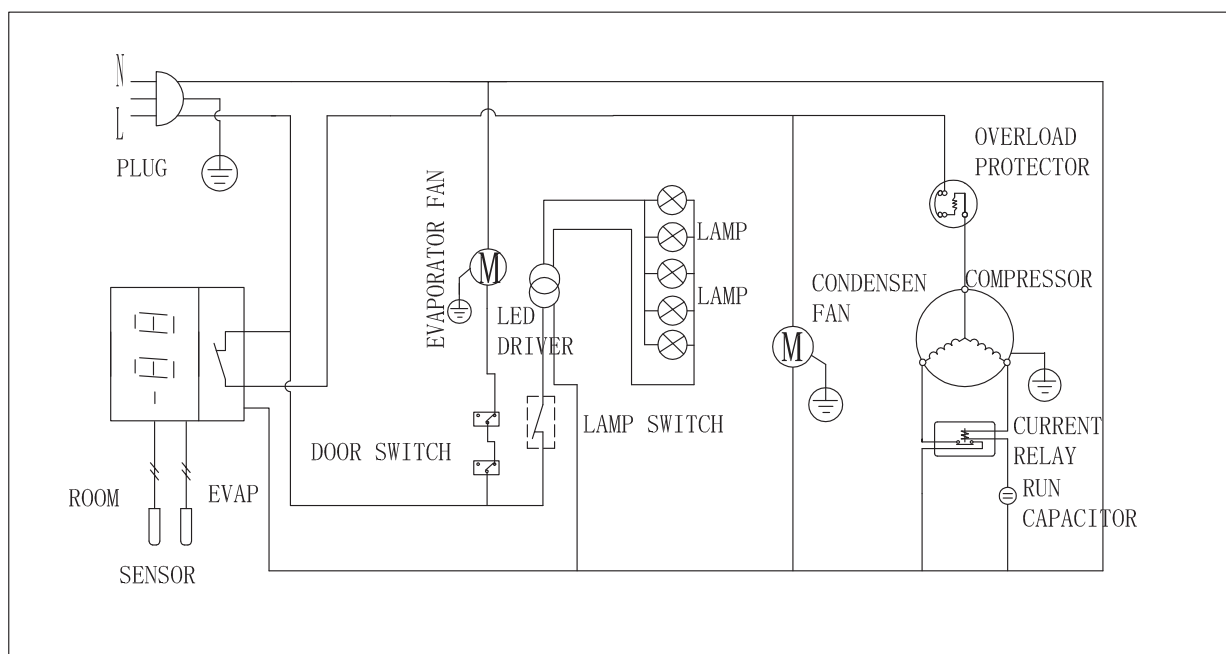
1. Upper light bulb replacement: Loosen the screws in the bottom of the top panel and swing the panel up until the light bulb is exposed. Light bulb can then be changed.
2. LED light bulb replacement: Take the cover off to replace the LED light bulb.

## WIRING DIAGRAM

MODEL: VP1R-23HC

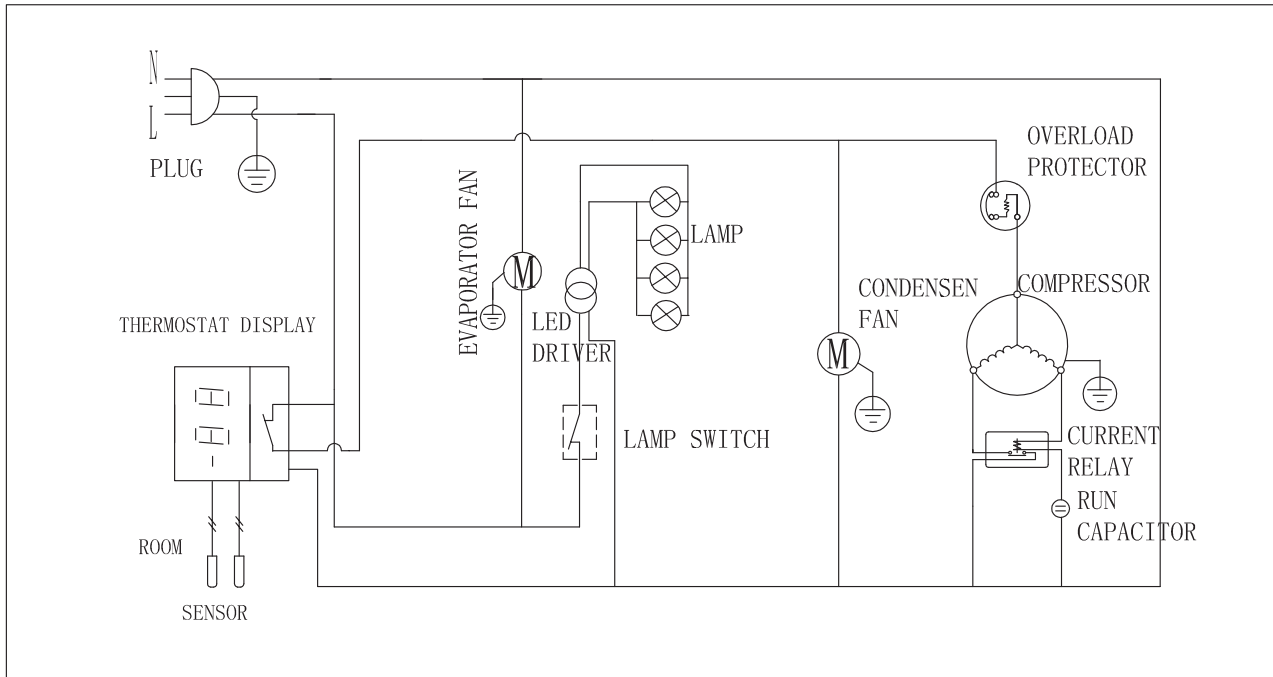


MODEL: VP2R-48HC

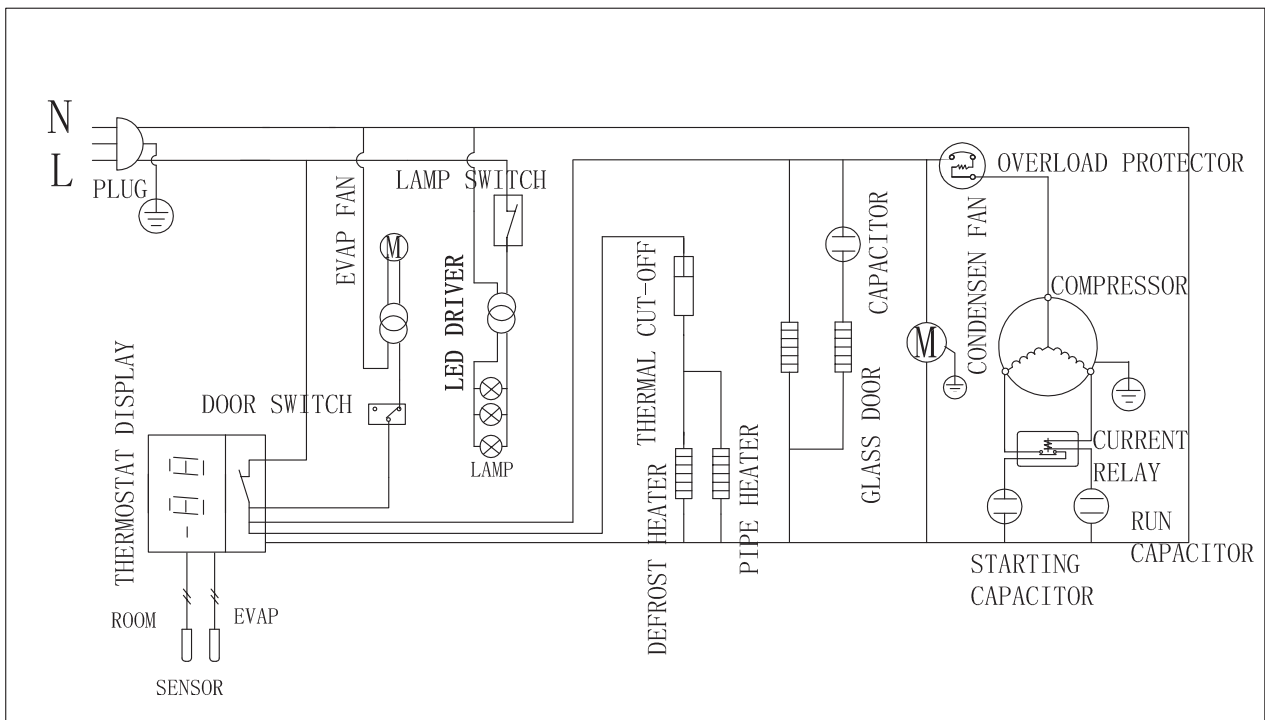


# WIRING DIAGRAM

MODEL:VP2R-48LHC

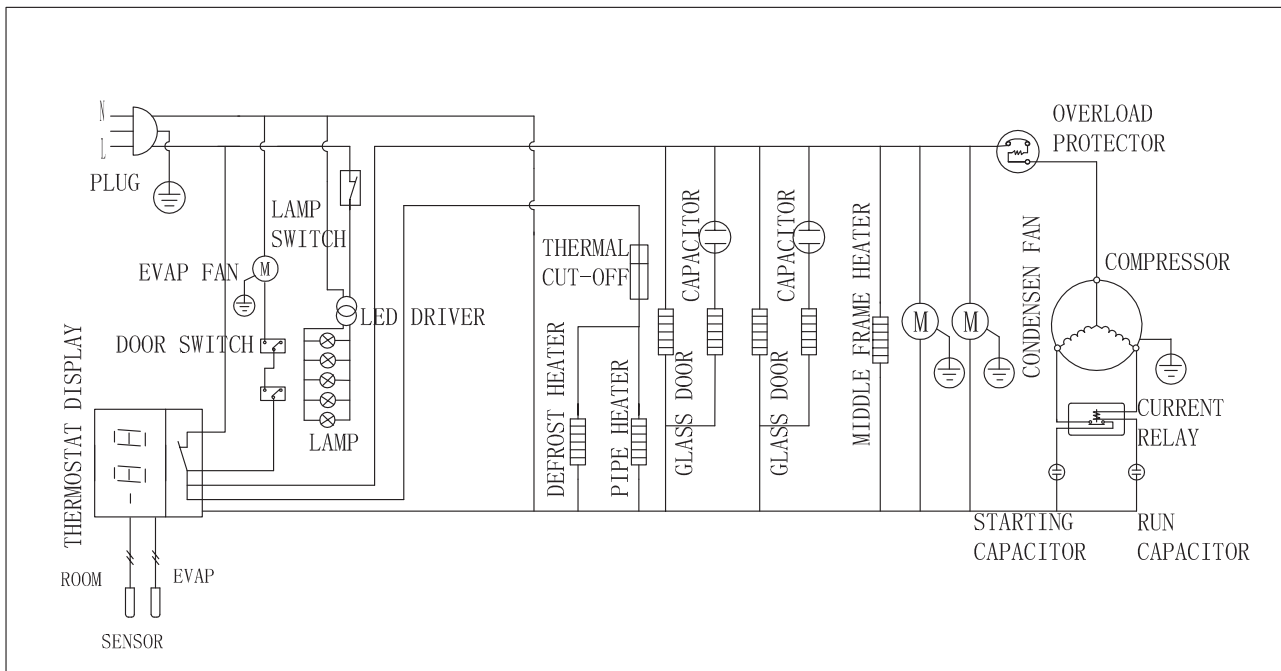


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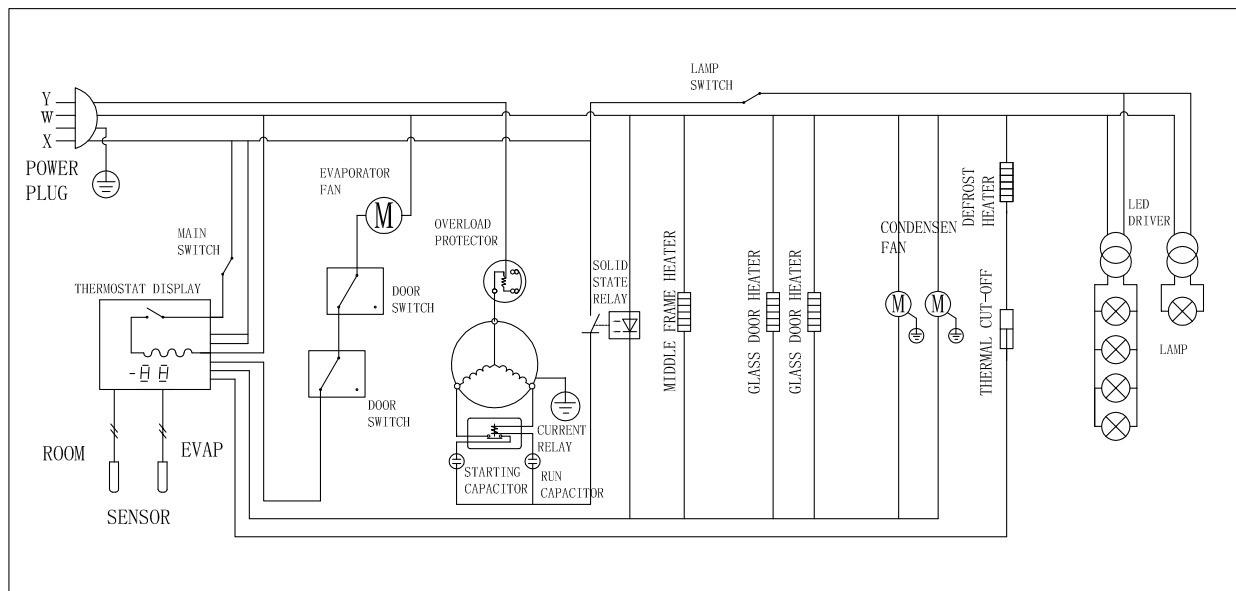


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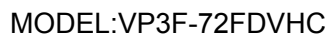
MODEL:VP2F-48HC



MODEL:VP2F-48FDVHC

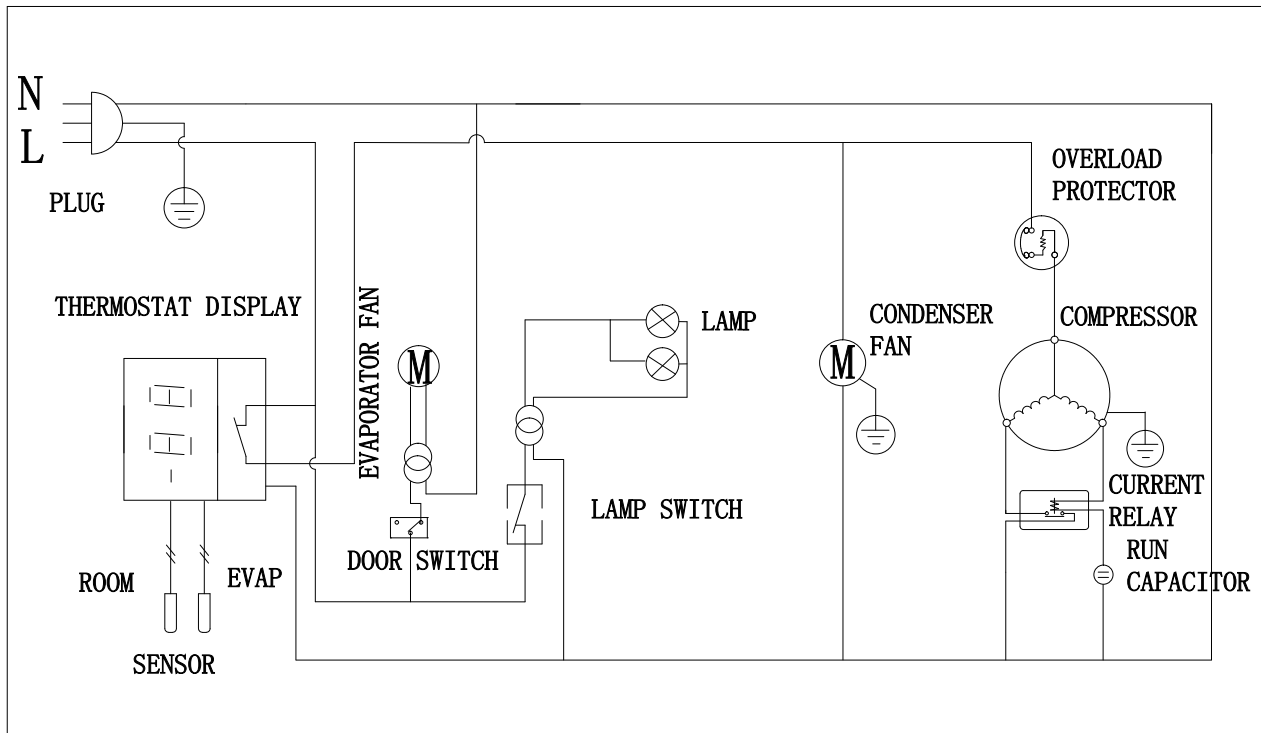


MODEL:VP3R-72HC

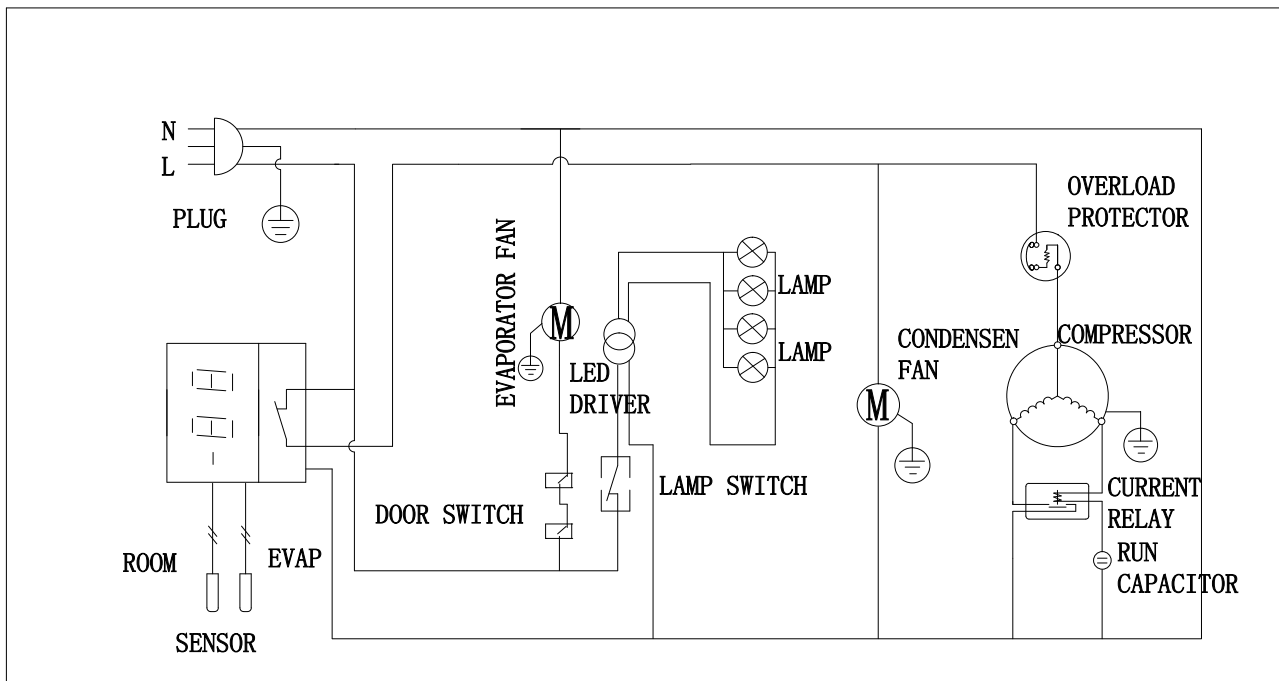


# WIRING DIAGRAM

MODEL: VP1R-23M



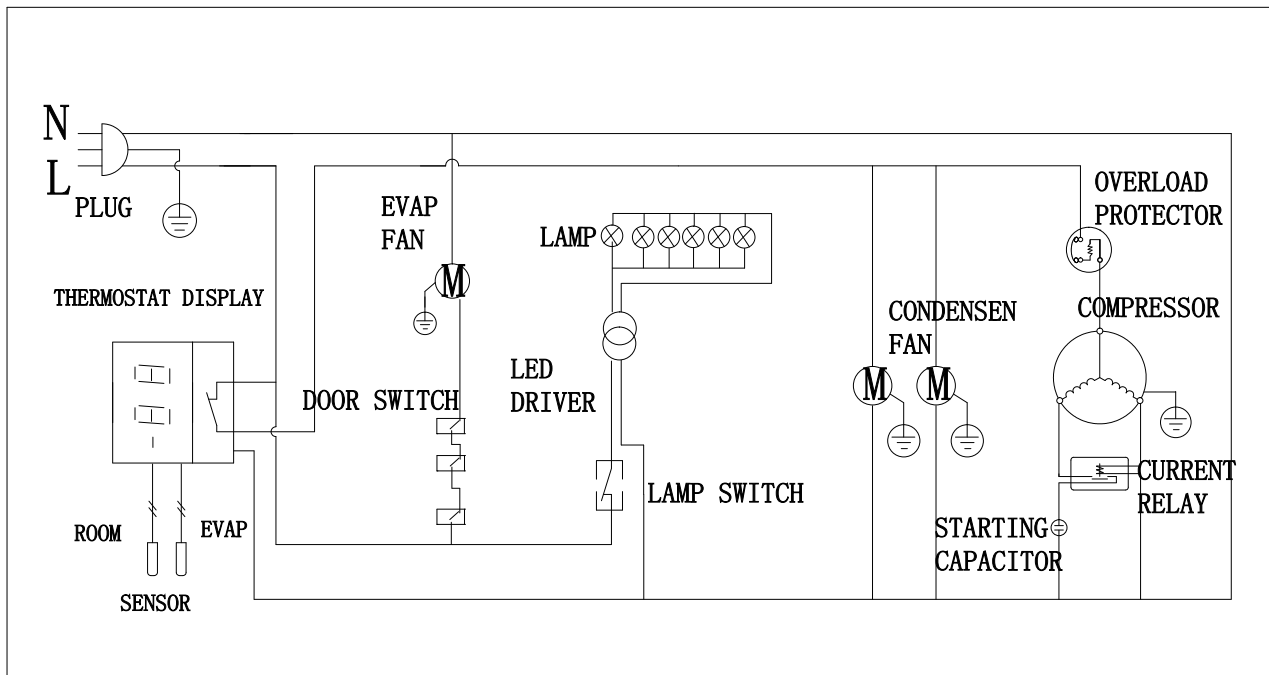
MODEL: VP2R-48M



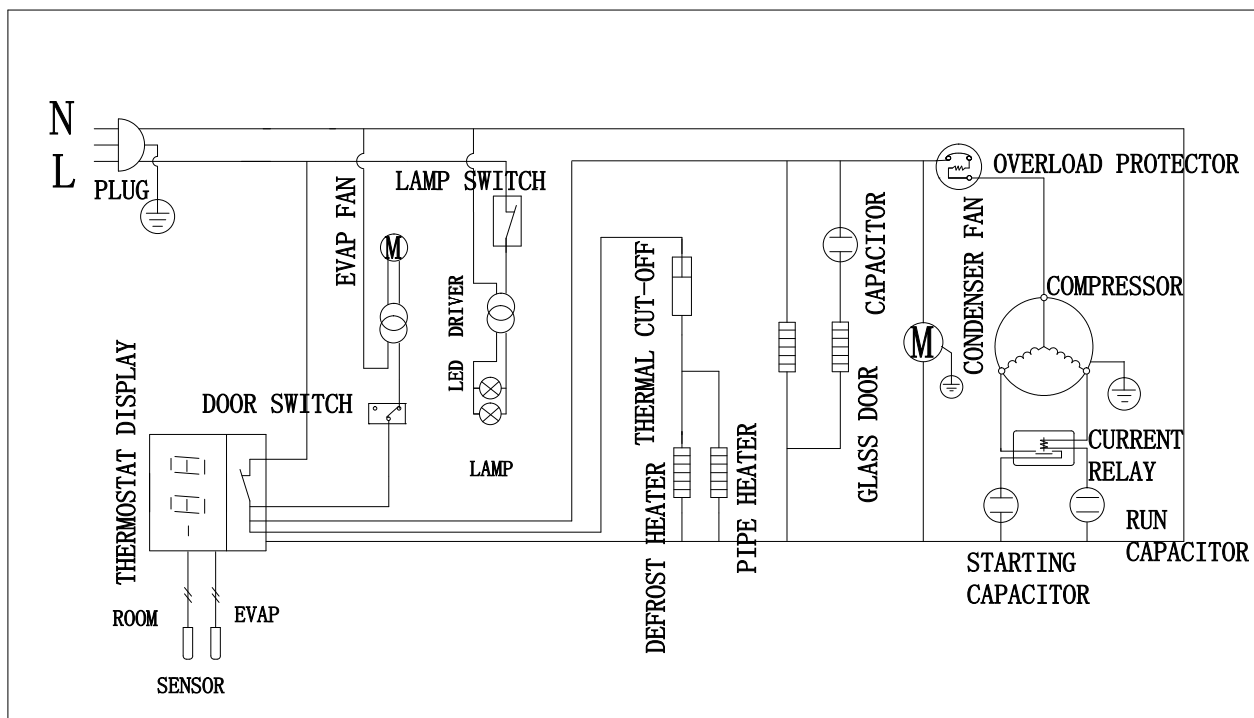


# WIRING DIAGRAM

MODEL:VP3R-72M

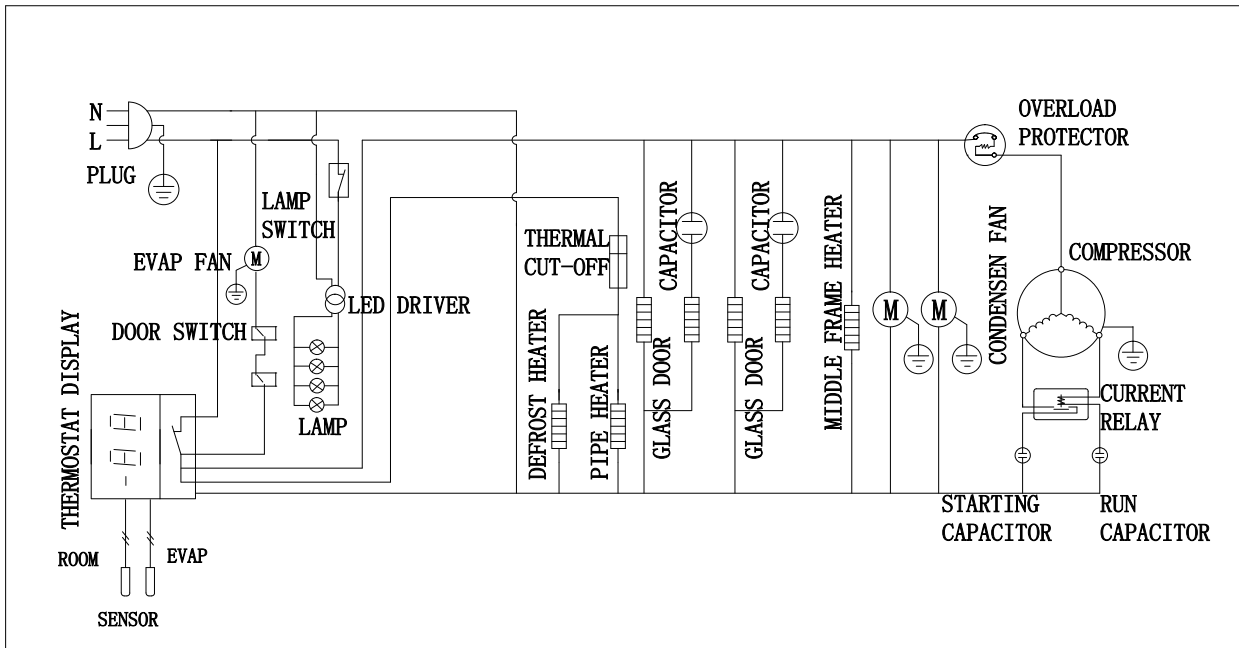


MODEL:VP1F-23M

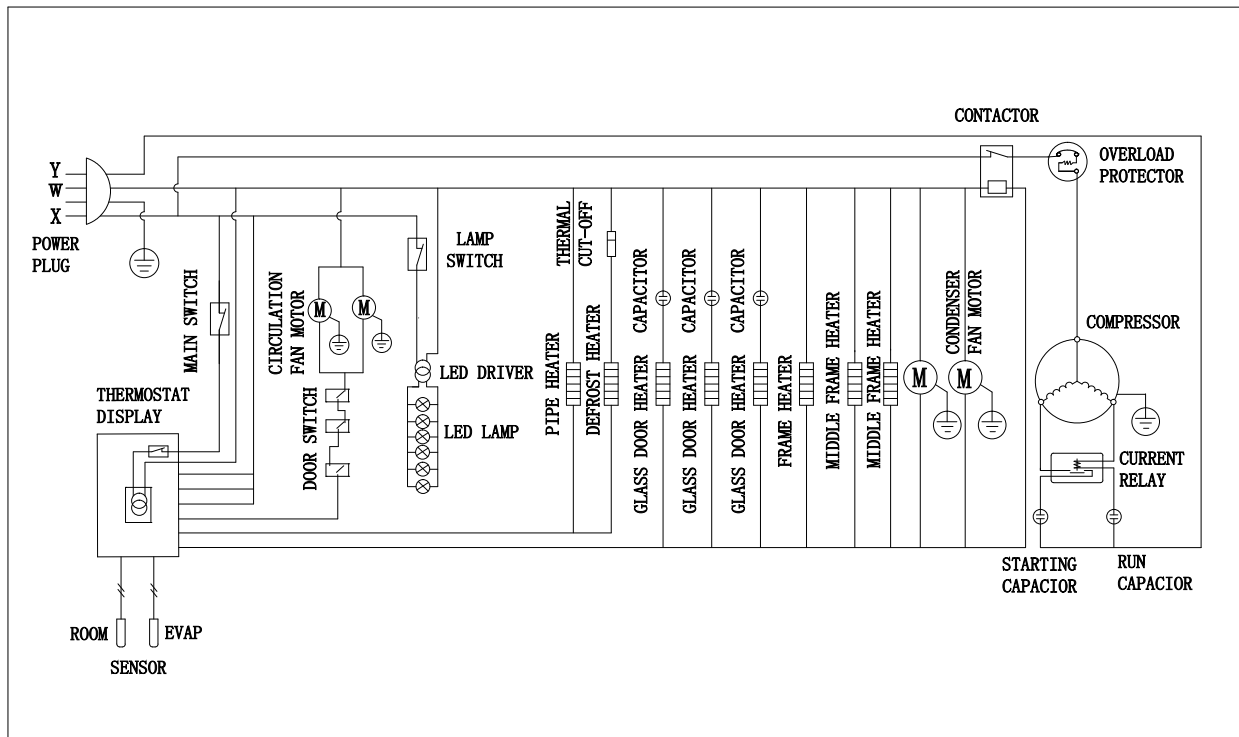


# WIRING DIAGRAM

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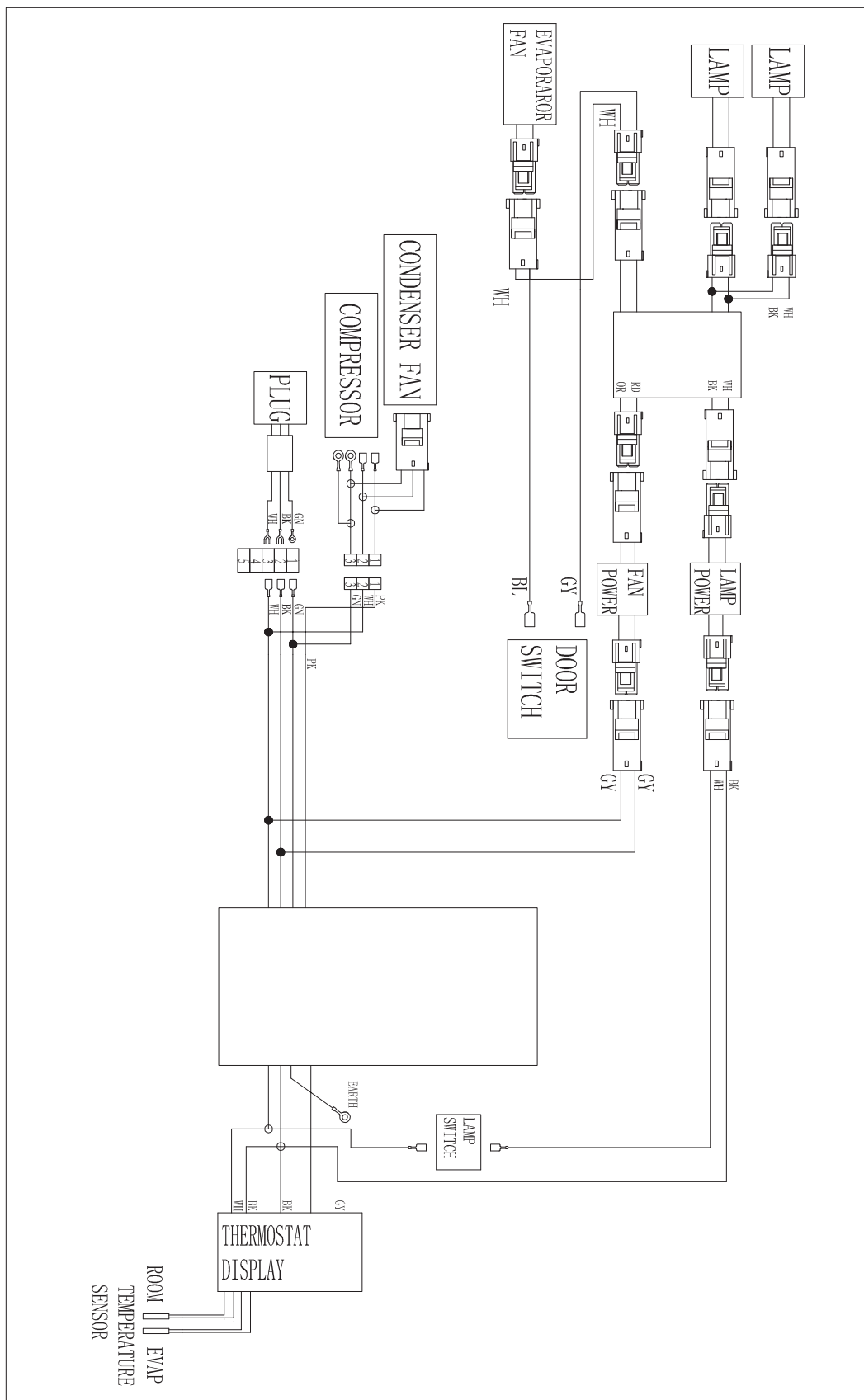


MODEL:VP3F-72MDV



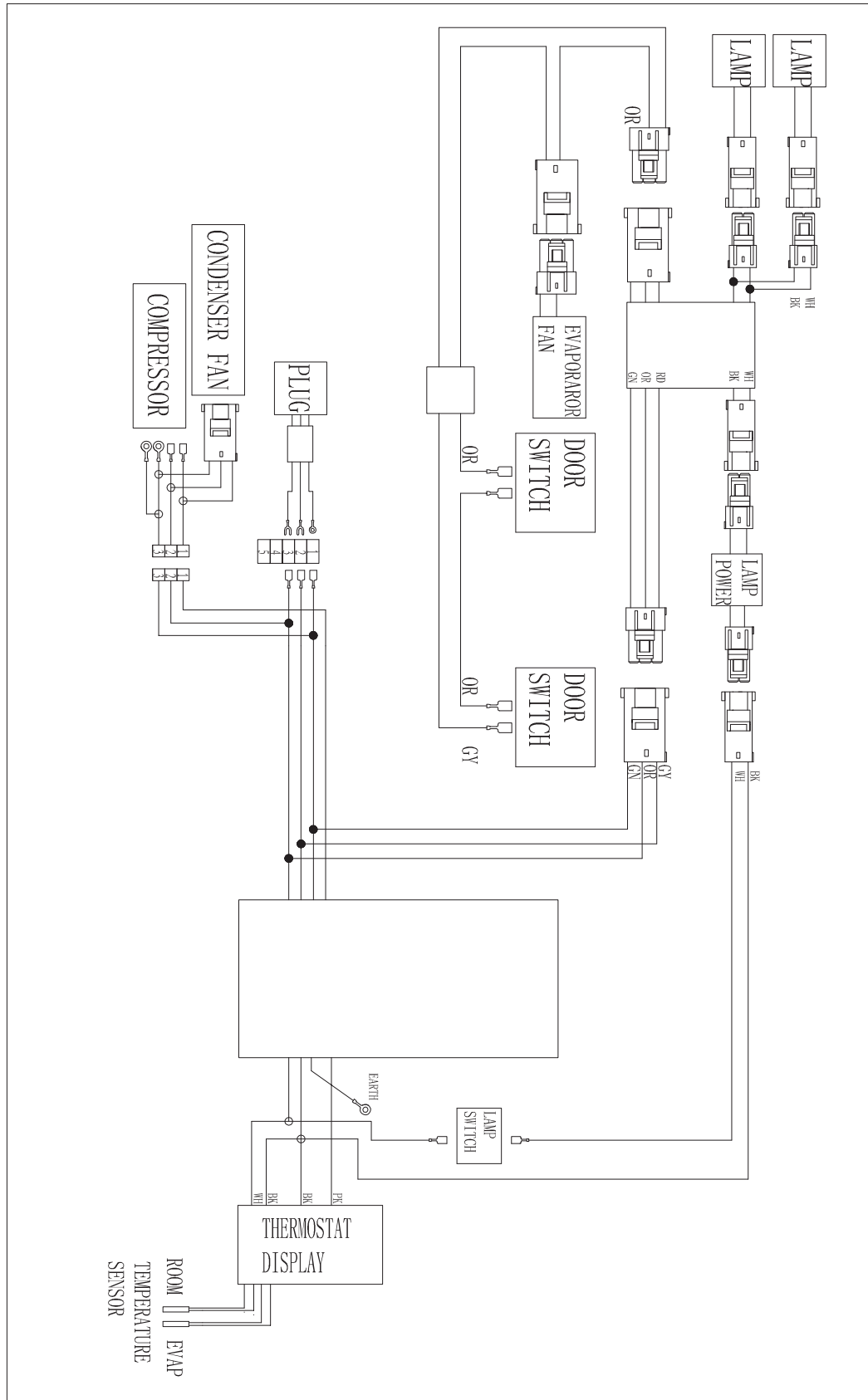
# WIRING DIAGRAM

MODEL: VP1R-23HC

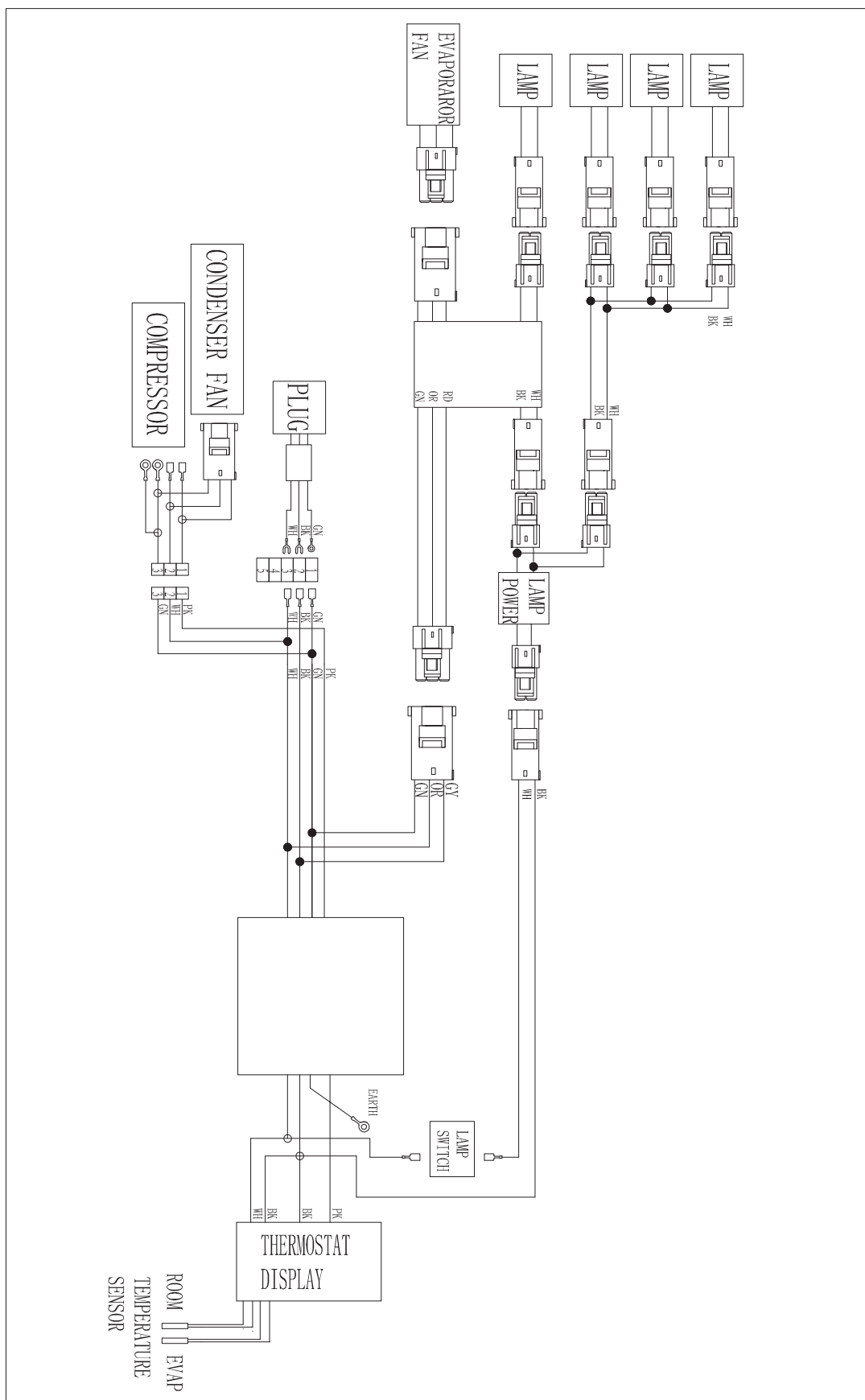


# WIRING DIAGRAM

MODEL:VP2R-48HC

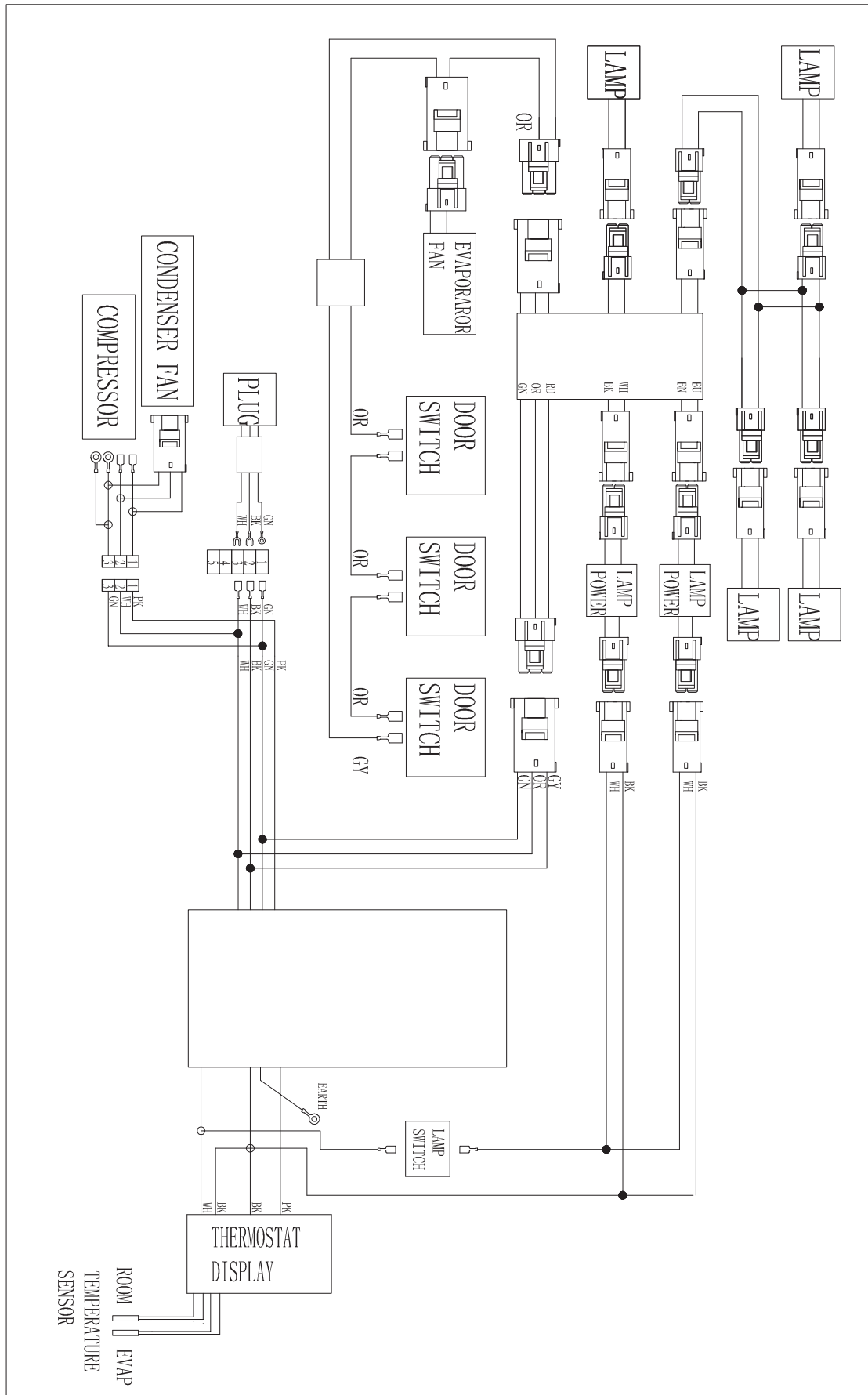


MODEL:VP2R-48LHC



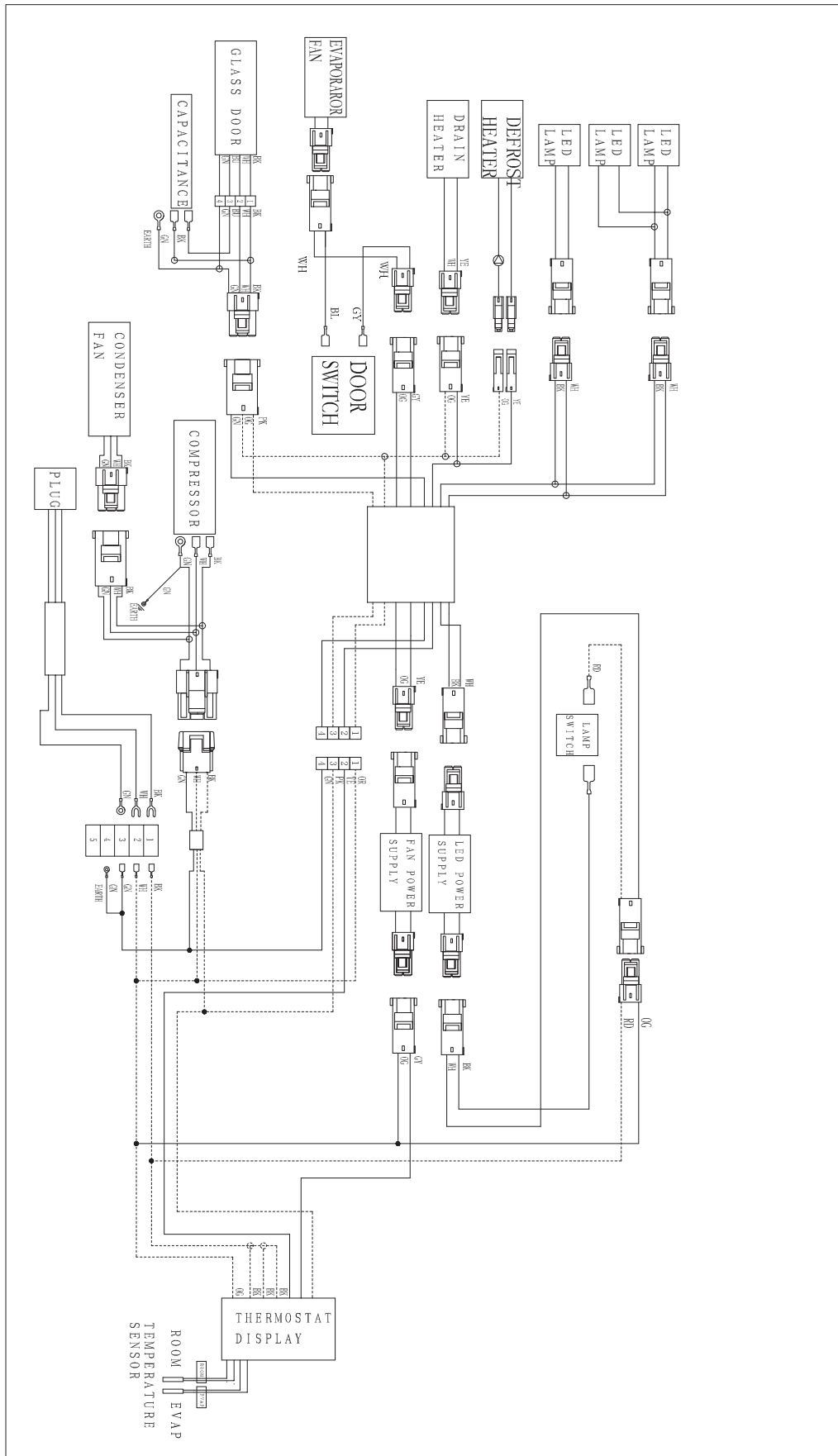
# WIRING DIAGRAM

MODEL:VP3R-72HC



# WIRING DIAGRAM

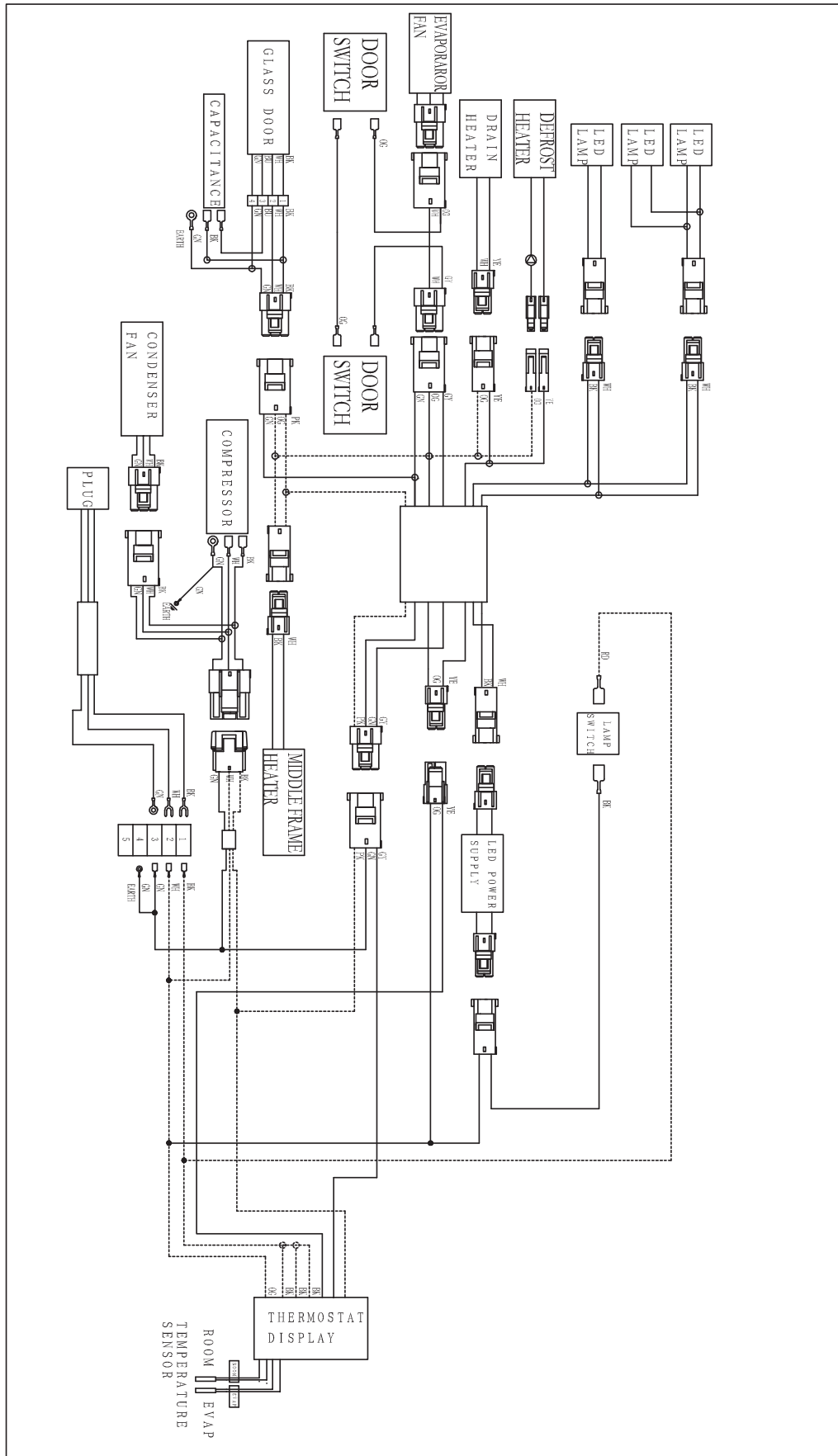
MODEL: VP1F-23HC





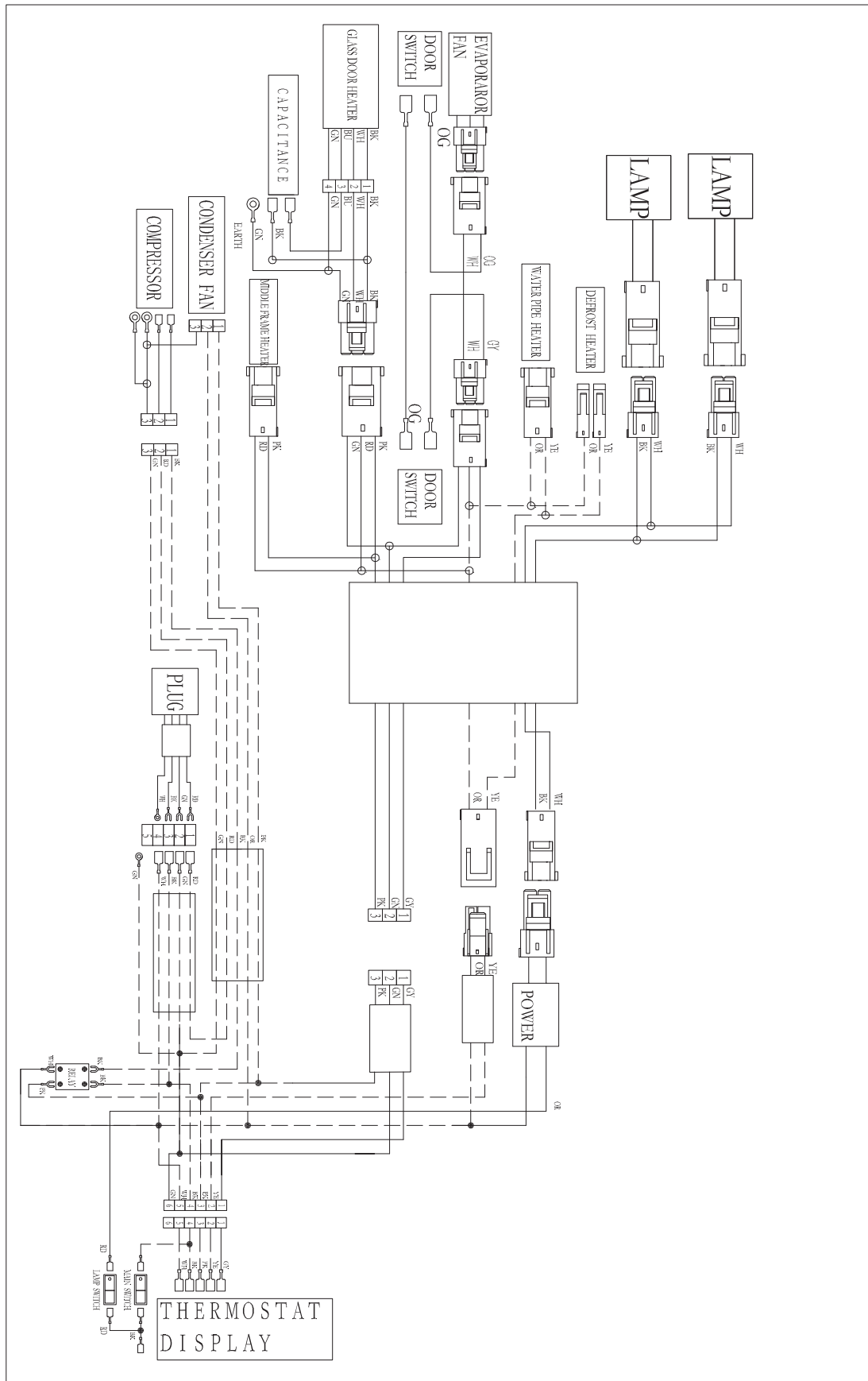
# WIRING DIAGRAM

MODEL:VP2F-48HC



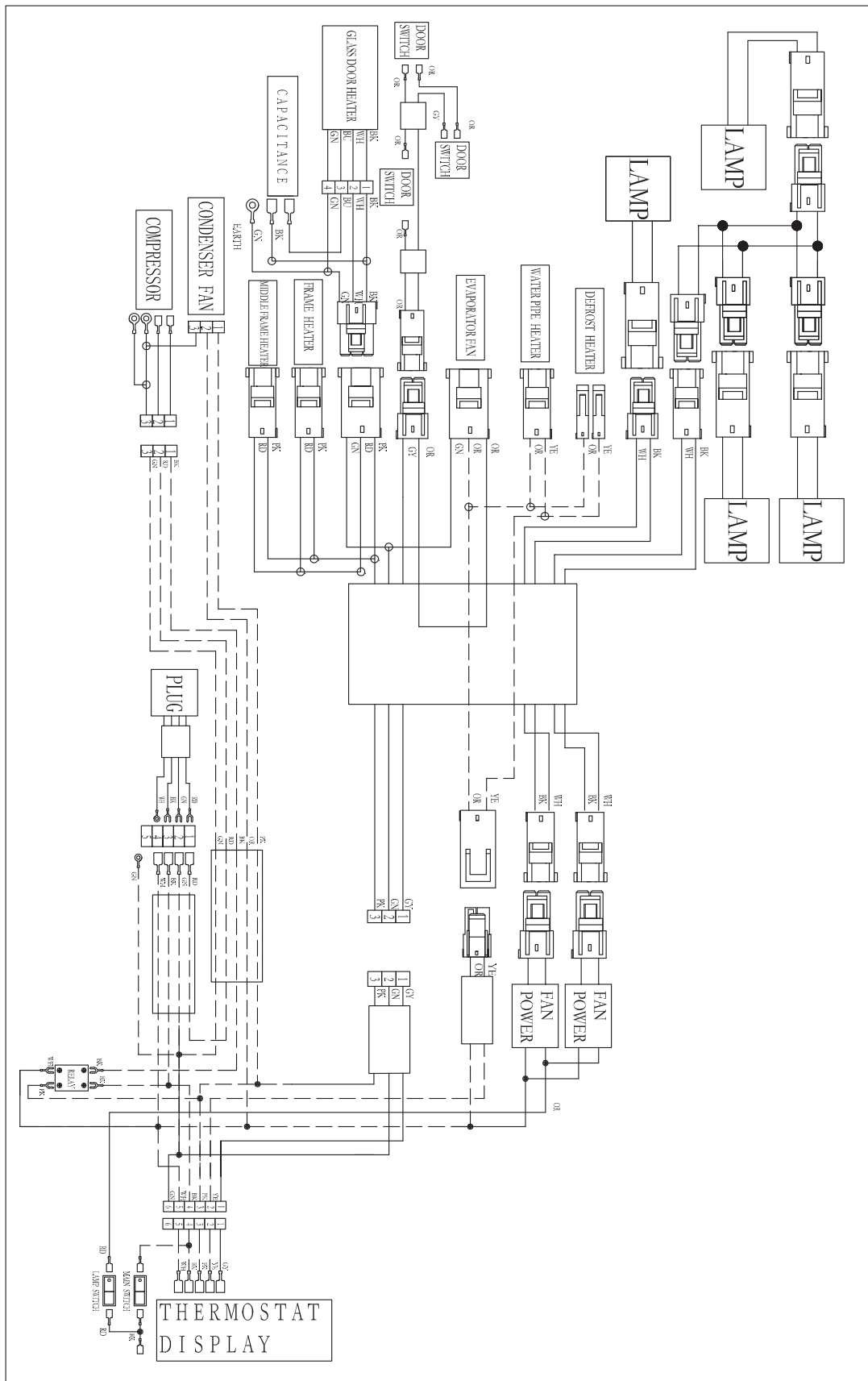
# WIRING DIAGRAM

MODEL:VP2F-48FDVHC



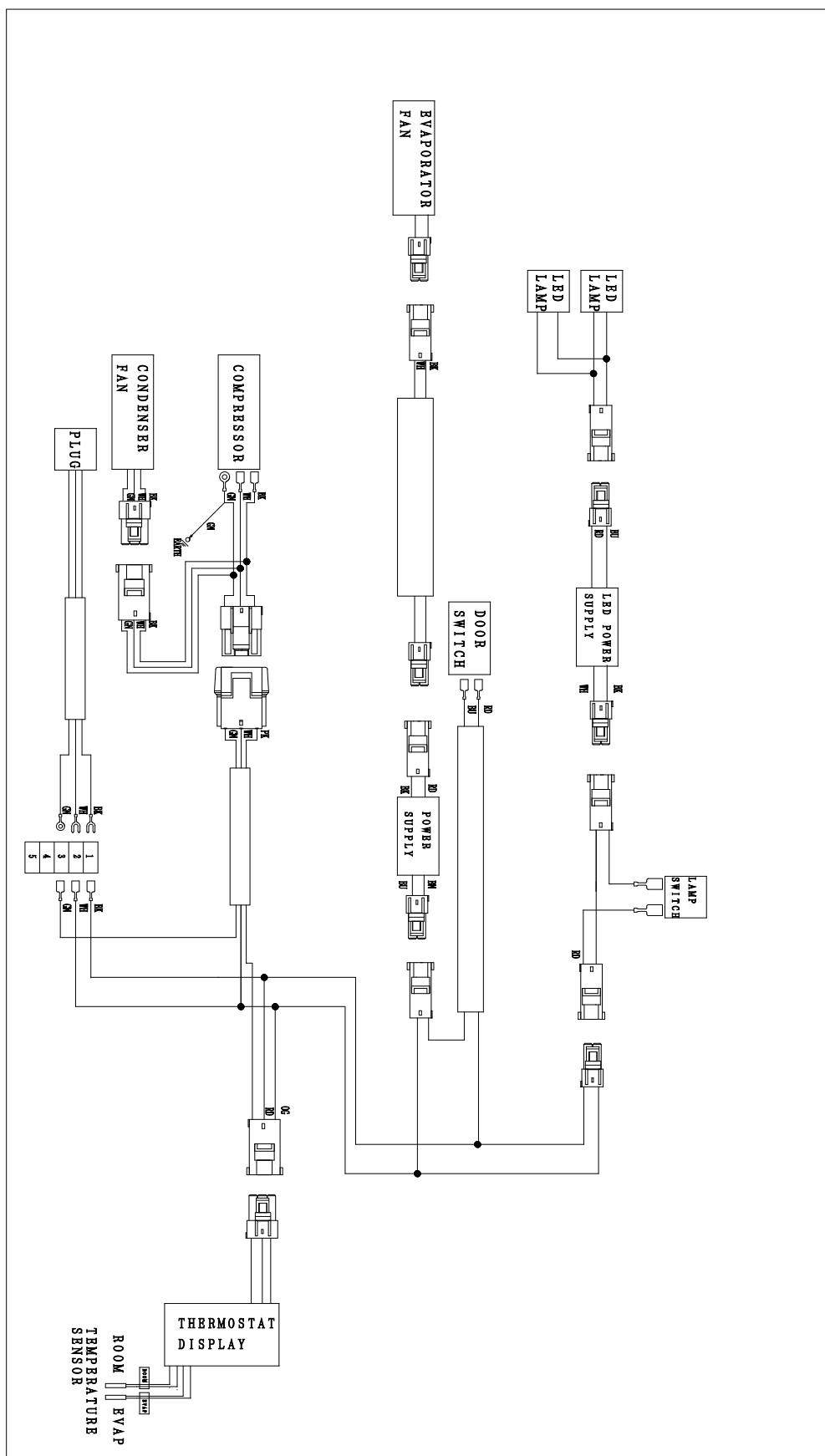
# WIRING DIAGRAM

MODEL:VP3F-72FDVHC



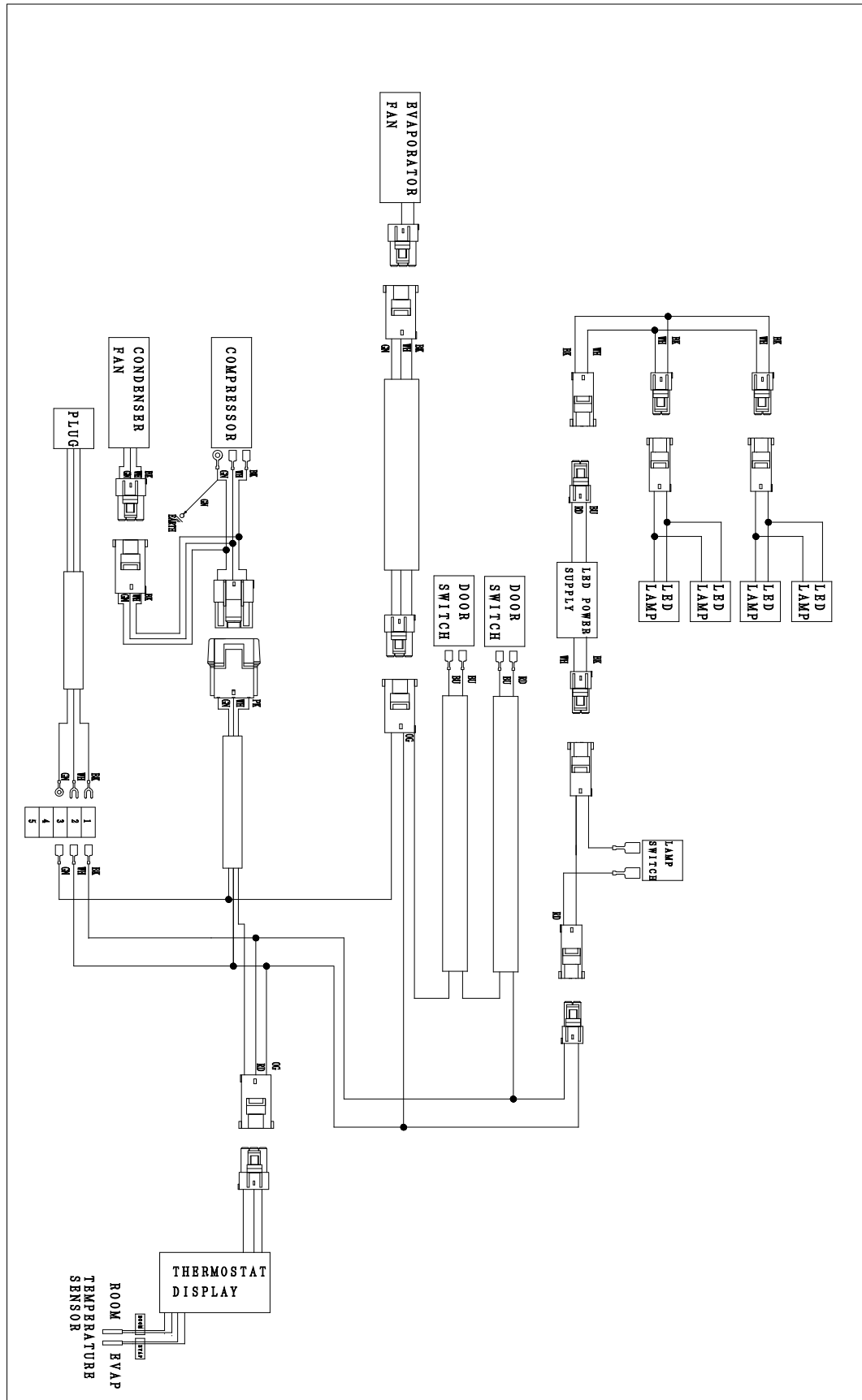
# WIRING DIAGRAM

MODEL:VP1R-23M



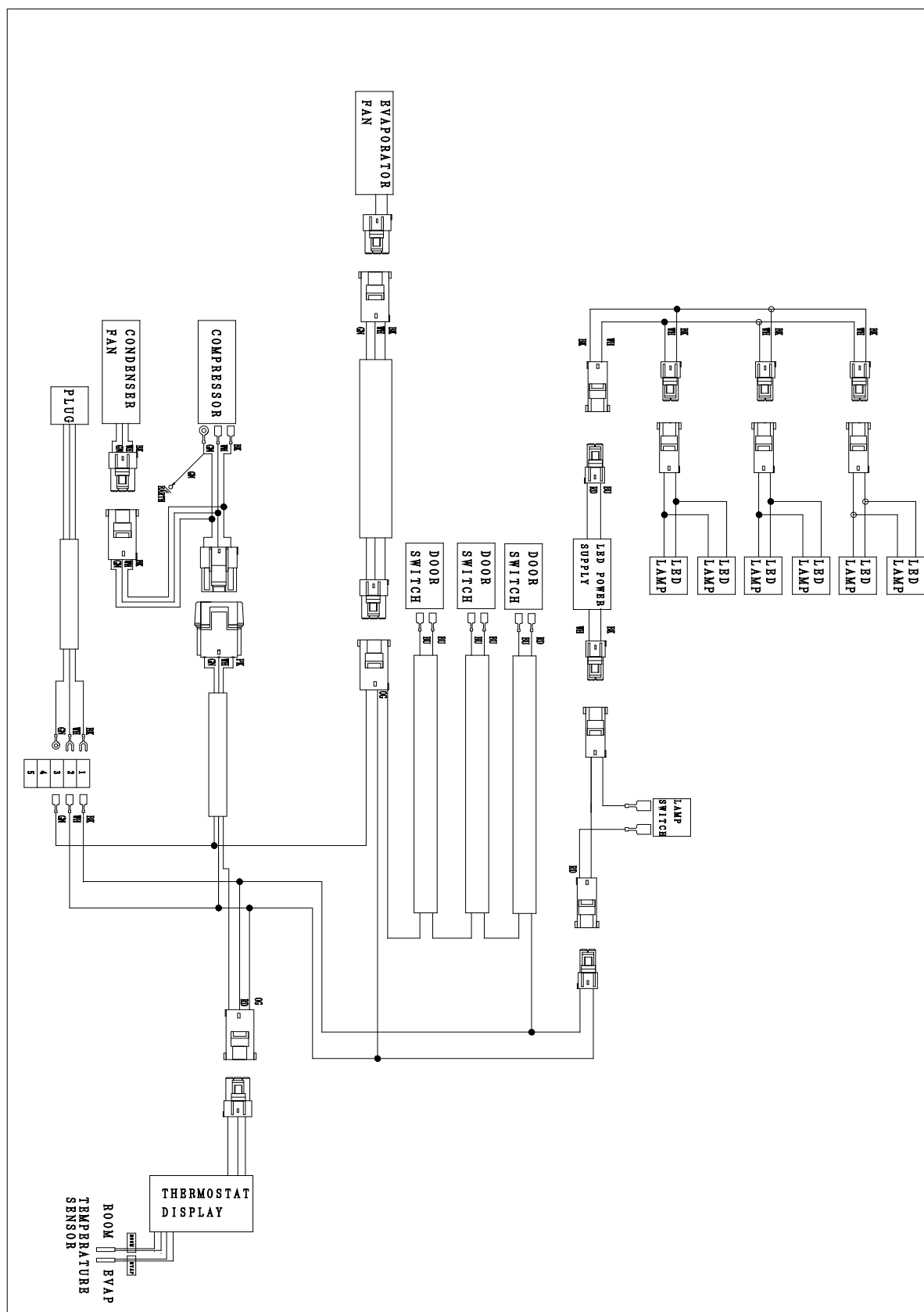
## WIRING DIAGRAM

MODEL:VP2R-48M



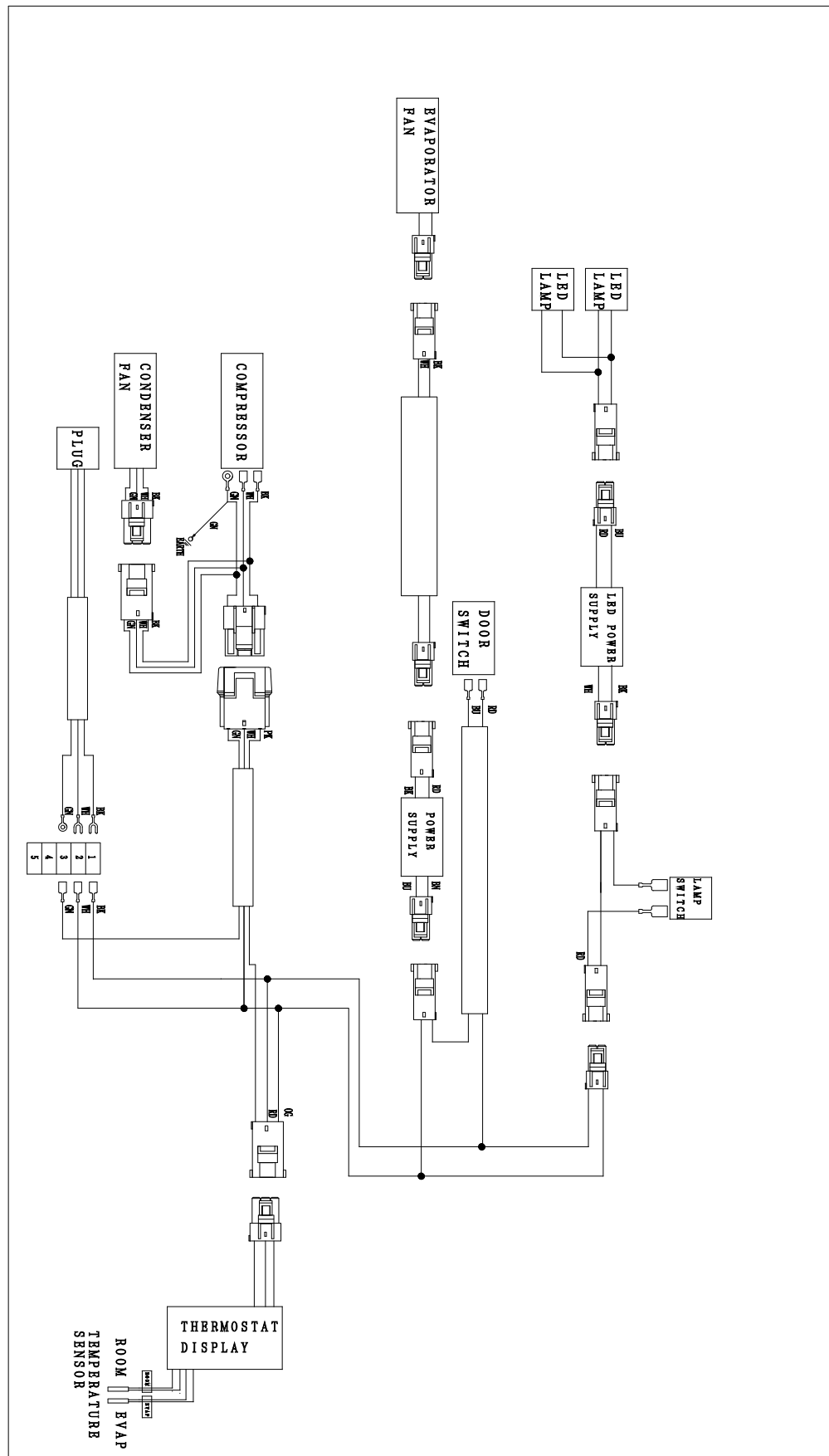
# WIRING DIAGRAM

MODEL: VP3R-72M



## WIRING DIAGRAM

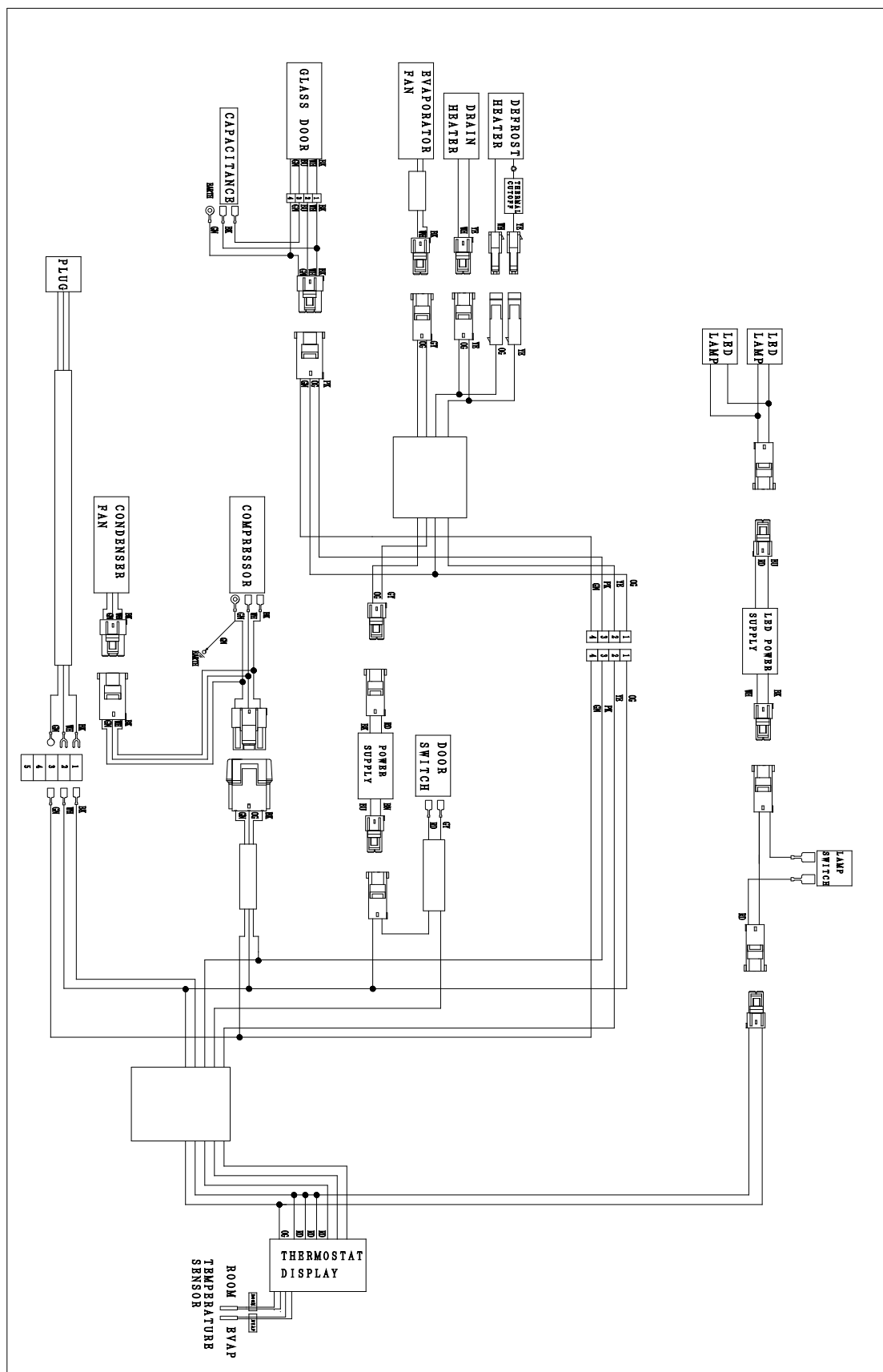
MODEL:VP1F-23M





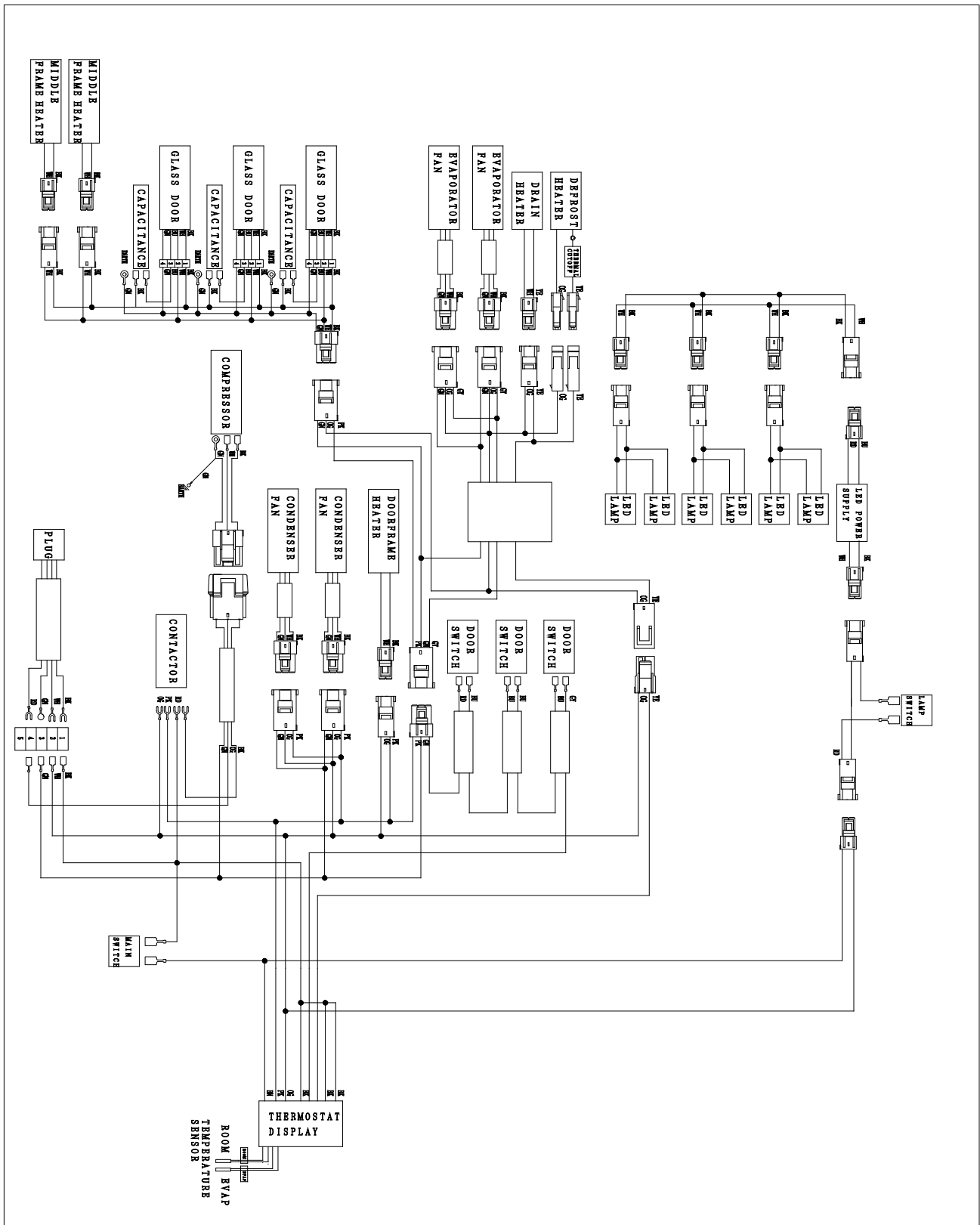
# WIRING DIAGRAM

MODEL:VP2F-48M



# WIRING DIAGRAM

MODEL:VP3F-72MDV





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