



Blast Chiller / Freezer

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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.

**Our product instructions will be uploaded on our company official website.**



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.

All safety messages will alert you to what the potential hazard is, tell you how 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 lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

This appliance can be used by children aged from 8 years and above and persons with reduced physical sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Keep the appliance and its cord out of reach of children less than 8 years.

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.

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

BLAST CHILLER & FREEZER							
MODEL#	V/Hz/Ph	AMPS	HP	BTU	CHARGE OZ	SHIP WEIGHT LBS	NEMA PLUG
COLDZONE-BLF37	115/60/1	8	1	3650	4.59	264	5-15P
COLDZONE-BLF40	115/60/1	8	1	3650	4.59	278	5-15P
COLDZONE-BLF65	115/230/60/1	11	1-1/4	4500	5.29	419	L14-20P

## 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 the units 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.

### 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.

### Leveling

A level cabinet looks better and will perform better because the doors will line up with the frames properly. 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

All models are supplied with casters for your convenience. It is very important, however, that the cabinet be installed in a stable condition with the front wheels locked while in use. Should it become necessary to lay the unit on its side or back for any reason, allow at least 24 hours before start-up to allow compressor oil to flow back into place. Failure to meet this requirement can cause compressor failure and unit damage.



**Unit repairs will not be subject to standard unit warranties if 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.



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

## OPERATION

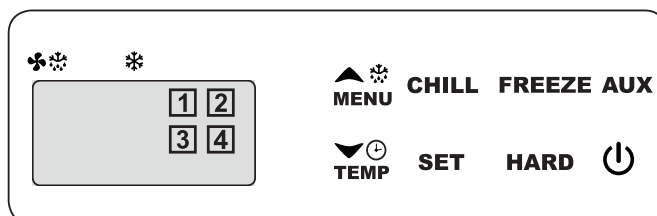


CAUTION

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

## SOLID-STATE THERMOSTAT DESCRIPTIONS

### 1. FRONT PANEL COMMANDS



#### Turn On

To switch the appliance on, press  button. This will place the unit in standby whilst waiting for the cycle to be selected.

#### Insert the food probe

- Before selecting which cycle to use, the probe must be inserted into the food. This allows the internal temperature of the food to be measured.
- It is important that the probe is correctly connected to the unit, or an alarm will activate and the appliance will not function.



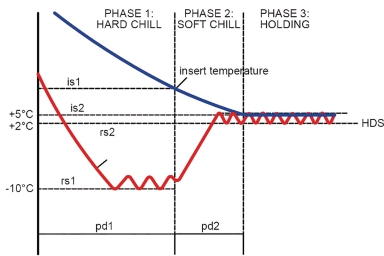
**Note: To prevent bacterial contamination or contamination of any other biological nature, the needle probe must be disinfected after use.**

#### Selecting a cycle

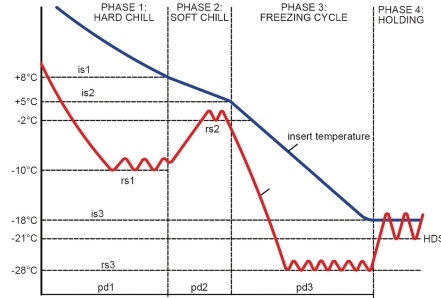
1. The number on the control panel corresponds to the cycle that is selected.
2. To toggle the cycle between hard and soft, press the **HARD** key.
3. Once the required cycle's number is shown, select the desired type of operation by using the **FREEZE** or **CHILL** key.
4. Confirm the choice by pressing the same button once again. This will start the cycle.

<b>Cycle 1</b>	Soft chilling for delicate products (e.g. patisseries and vegetables)	<ol style="list-style-type: none"> <li>1. While in standby, icons <b>1</b> and <b>2</b> will flash.</li> <li>2. Press the <b>CHILL</b> key once. Icon <b>1</b> will remain on.</li> <li>3. To start the cycle, press the <b>CHILL</b> key again.</li> </ol>
<b>Cycle 2</b>	Soft freezing for delicate products (e.g. patisseries and vegetables)	<ol style="list-style-type: none"> <li>1. While in standby, icons <b>1</b> and <b>2</b> will flash.</li> <li>2. Press the <b>FREEZE</b> key once. Icon <b>2</b> will remain on.</li> <li>3. To start the cycle, press the <b>FREEZE</b> key again.</li> </ol>
<b>Cycle 3</b>	Hard chilling for general purpose foods (e.g. meat, pies and lasagne)	<ol style="list-style-type: none"> <li>1. While in standby, icons <b>1</b> and <b>2</b> will flash.</li> <li>2. Press the <b>HARD</b> key. Icons <b>3</b> and <b>4</b> will turn on, indicating hard chilling and hard freezing can be selected.</li> <li>3. Press the <b>CHILL</b> key once. Icon <b>3</b> will remain on.</li> <li>4. To start the cycle, press the <b>CHILL</b> key again.</li> </ol>
<b>Cycle 4</b>	Hard freezing for general purpose foods (e.g. meat, pies and lasagne)	<ol style="list-style-type: none"> <li>1. While in standby, icons <b>1</b> and <b>2</b> will flash.</li> <li>2. Press the <b>HARD</b> key. Icons <b>3</b> and <b>4</b> will turn on, indicating hard chilling and hard freezing can be selected.</li> <li>3. Press the <b>FREEZE</b> key once. Icon <b>4</b> will remain on.</li> <li>4. To start the cycle, press the <b>FREEZE</b> key again.</li> </ol>

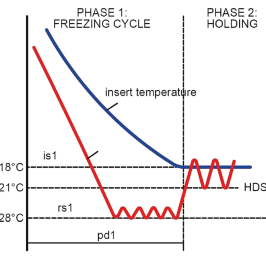
**1 CY1: HARD CHILL+SOFT CHILL+HOLDING**



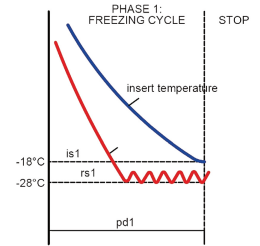
**2 CY2: HARD CHILL+SOFT CHILL+FREEZING CYCLE+HOLDING**



**3 CY3: FREEZING CYCLE+HOLDING**



**4 CY4: FREEZING CYCLE THEN STOP**



**Note:** After cycles 1, 2 and 3 are complete, the unit will enter a holding phase. Cabinet will hold end temperature until the operator ends cycle.

## Temporarily stopping the running cycle

1. If a chill operation is selected, press the **CHILL** key to stop. If a freeze operation is selected, press the **FREEZE** key to stop.
2. The compressor and the fan will stop and the icon for the current cycle starts to flash.
3. To restart the cycle, press the same key used to stop the cycle. The cycle will restart from the same point at which it was interrupted. There will be a 2-minute delay after stopping the generator in order to prevent the appliance from overheating.
4. If the cycle is not manually restarted, the Chiller will automatically restart after 20 minutes.

## How to stop a cycle

- If a chill operation is selected, press the **CHILL** key once.
- If a freeze operation is selected, press the **FREEZE** key once.

## Display Temperatures

- The upper display shows the temperature of the inside of the cabinet. The bottom display shows the temperature of the inserted probe (ip1).
- Probes ip2 & ip3 are not included. If displayed, press the **TEMP** key until ip1 is displayed.
- Once the cycle has finished, the appliance will beep to indicate the food has reached the desired temperature.



## Locking the Keyboard

- To lock the keyboard, press and hold both **MENU** and **TEMP** keys.
- To unlock the keyboard, press and hold both **MENU** and **TEMP** keys again.

## Resetting Date and Time

To reset the clock data, press and hold the **TEMP** key for 5 seconds. The date and time parameters will be shown.

1. Press the **SET** key. The value will start to flash.
2. Adjust the value using both **MENU** and **TEMP** keys.
3. Press the **SET** key to confirm the new value and move onto the next value.



## MAINTENANCE

### Manual Defrost

Ensure that no cycle is active and that the hold mode function is not running.

- To manually defrost the appliance: Press and hold the  key for few seconds to begin the process.



**Note: The defrost will not be done if the temperature detected by the evaporator probe is higher than the stop defrost temperature parameter.**



**The unit must be turned OFF and 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 and it is recommended 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 cleaning 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.

## MAINTENANCE

### 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,



**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 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 steel's 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. Do not 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 grove in the door and replaced by pressing the new one back into place.

### Doors/Hinges

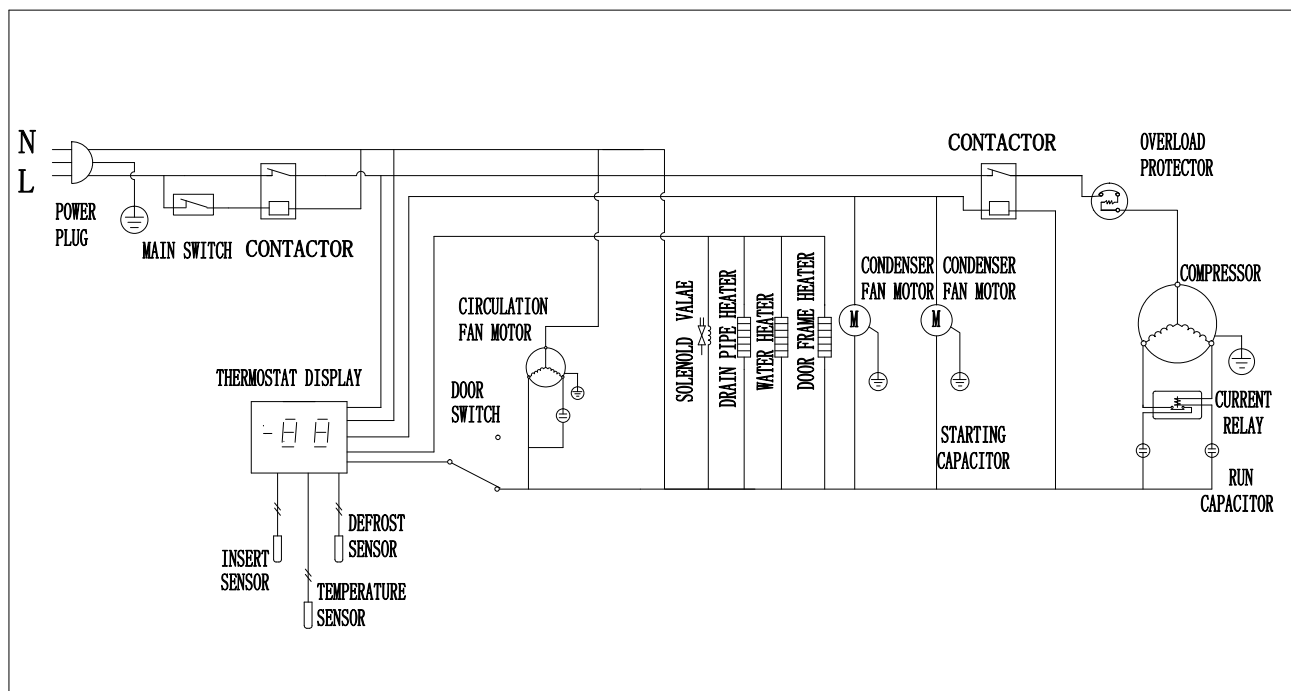
Over time and with heavy use, door hinges may become loose. If the door is beginning to sag, tighten the screws that mount the hinge brackets to the frame of the unit. If the doors are loose or sagging, this can cause the hinge to pull out of the frame which may damage both the doors and the door hinges.

### Drain Maintenance

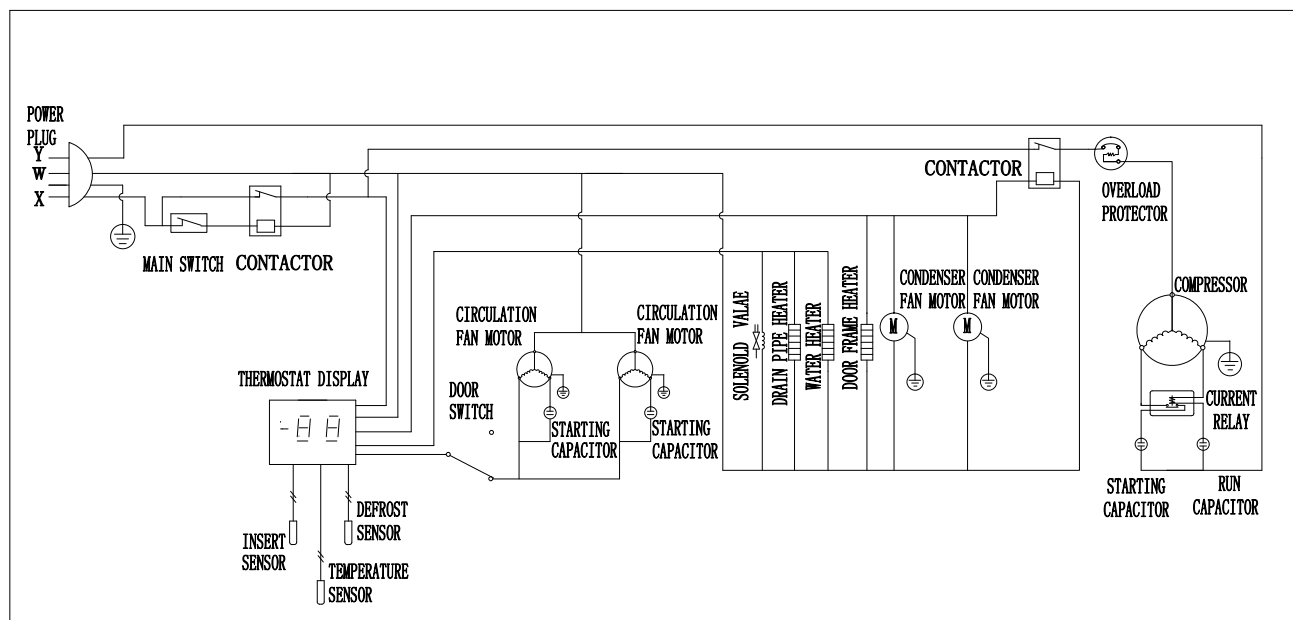
Each unit has a drain located inside the unit which removes the condensation from the evaporator coil and evaporates it into an external condensate evaporator pan. Each drain can become loose or disconnected from moving or bumping the drain. If you notice excessive water accumulation on the inside of the unit, be sure the drain tube is connected from the evaporator housing to the condensate evaporator drain pan. If water starts to collect 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 this may cause water to back up and overflow the drain pans.

# WIRING DIAGRAM

MODEL: COLDZONE-BLF37 / COLDZONE-BLF40

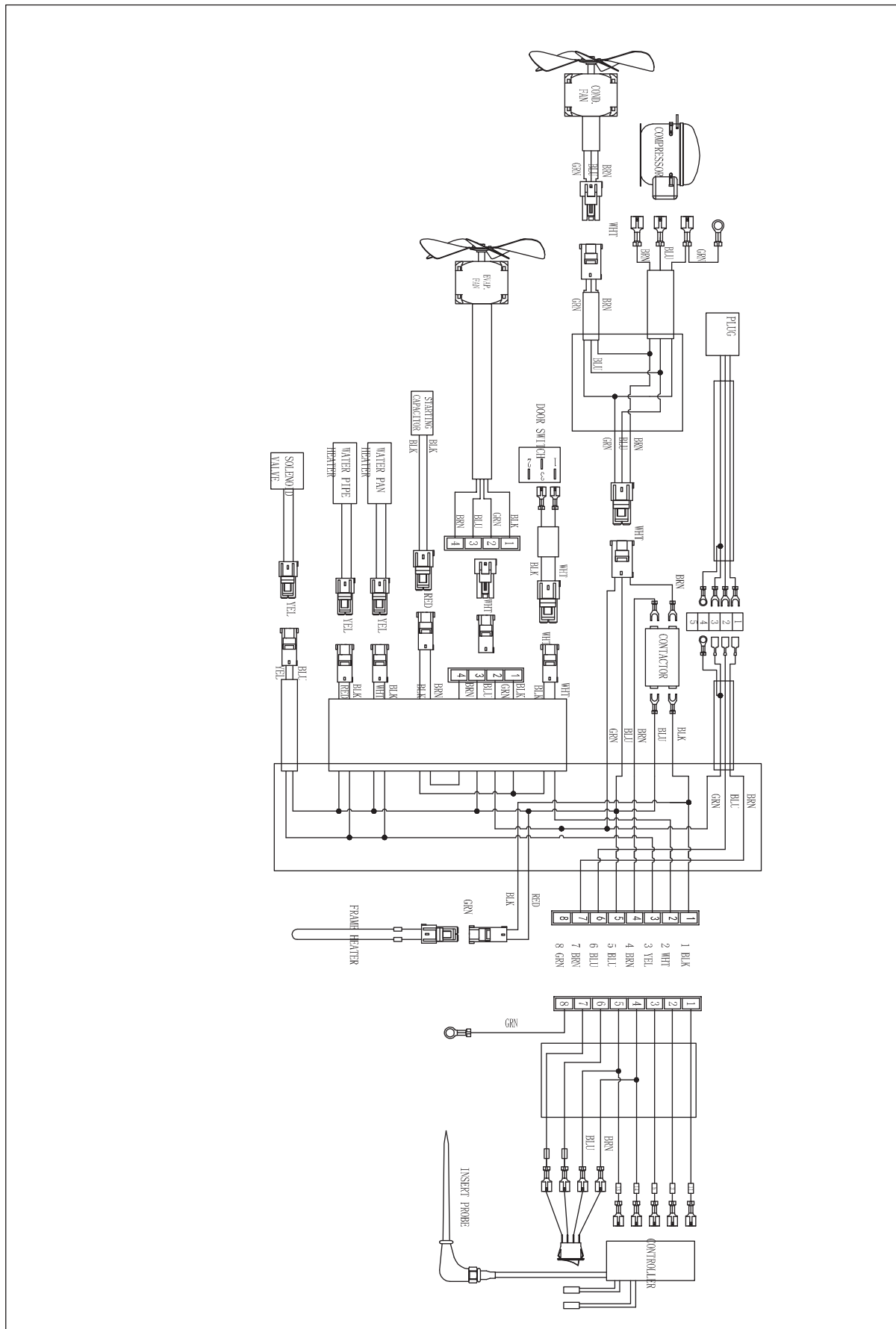


MODEL: COLDZONE-BLF65



# WIRING DIAGRAM

MODEL: COLDZONE-BLF37 / COLDZONE-BLF40



MODEL: COLDZONE-BLF65

