



REACH IN REFRIGERATORS & FREEZERS

Manual for installation, use and maintenance



TABLE OF CONTENTS

1	RECEIVING AND INSPECTING THE EQUIPMENT _____	3
2	SPECIFICATIONS _____	3
2.1	DIMENSIONS _____	5
3	INSTALLATION _____	9
3.1	UNCRATING _____	9
3.2	LOCATION _____	9
3.3	DATA PLATE _____	9
3.4	INSTALLATION OF CASTORS OR OPTIONAL LEGS _____	10
3.5	LEVELING _____	11
3.6	ELECTRICAL CONNECTIONS _____	11
3.7	SHELVING INSTALLATION _____	12
4	OPERATION _____	12
5	MAINTENANCE _____	15
6	TROUBLE SHOOTING _____	17
7	WIRING DIAGRAMS _____	18
8	WARRANTY _____	24

1 RECEIVING AND INSPECTING THE EQUIPMENT

Upon receiving your new Fagor Refrigerator, check the package and the machine for any damages that may have occurred during transportation. Visually inspect the exterior of the package, if damaged, open and inspect the contents with the carrier. Any damage should be noted and reported on the delivering carrier’s receipt.

In the event that the exterior is not damaged, yet upon opening, there is concealed damage to the equipment notify the carrier immediately. Notification should be made verbally as well as in written form. Request an inspection by the shipping company of the damaged equipment. Retain all crating material until inspection has been made. Contact the dealer through which you purchased the unit.

Check the compressor compartment housing and visually inspect the refrigeration package. Be sure lines are secure and base is still intact.

2 SPECIFICATIONS

REACH IN REFRIGERATORS AND FREEZERS, GENERAL SPECS										
Model	Capac. (Cu.Ft.)	# of Shvls	BTU'S /Hr	Temperature Operation		Pressure in Suction Line *	Super-Heat **	Ref. Amount	Ref. Type	Ship Weight
				Set Point	Cut in					
QR-1	23	3	1666	0°C / 32°F	5°C / 41°F	12-14 PSIG	7°C / 13°F	11.6 oz	134a	295
QR-2	49	6	2104	0°C / 32°F	5°C / 41°F	12-14 PSIG	7°C / 13°F	11.2 oz	134a	475
QF-1	23	3	2493	-22°C / -8°F	-18°C / 0°F	16-18 PSIG	4°C / 7°F	14.1 oz	404A	295
QF-2	49	6	3644	-22°C / -8°F	-18°C / 0°F	16-18 PSIG	4°C / 7°F	23.9 oz	404A	475
QR-1G	23	3	1666	0°C / 32°F	5°C / 41°F	12-14 PSIG	7°C / 13°F	12.3 oz	134a	295
QR-2G	49	6	2104	0°C / 32°F	5°C / 41°F	12-14 PSIG	7°C / 13°F	11.2 oz	134a	475
QVR-1	21	3	1666	0°C / 32°F	5°C / 41°F	12-14 PSIG	7°C / 13°F	11.6 oz	134a	295
QVR-2	45	6	2104	0°C / 32°F	5°C / 41°F	12-14 PSIG	7°C / 13°F	11.2 oz	134a	475
QVF-1	21	3	2493	-22°C / -8°F	-18°C / 0°F	16-18 PSIG	4°C / 7°F	14.1 oz	404A	295
QVF-2	45	6	3644	-22°C / -8°F	-18°C / 0°F	16-18 PSIG	4°C / 7°F	23.9 oz	404A	475
QVR-1G	21	3	1666	0°C / 32°F	5°C / 41°F	12-14 PSIG	7°C / 13°F	12.3 oz	134a	295
QVR-2G	45	6	2104	0°C / 32°F	5°C / 41°F	12-14 PSIG	7°C / 13°F	11.2 oz	134a	475

Note:

* The pressure in the suction line is recommended at 32°C/90°F maximum of ambient temperature.

** Superheat measured in the outlet of the evaporator at 32°C/90°F

REACH IN REFRIGERATORS AND FREEZERS, ELECTRICAL SPECS											
Model	Max. Amps	HP	Voltage	NEMA Plug	Breaker Size*	Wire gauge recommended for 2% voltage drop in supply circuits **					
						40 ft ***	60 ft	80 ft	100 ft	120 ft	140 ft
QR-1	5.6	1/4	115 / 60 / 1	5-15P	15 amp	14 AWG	14 AWG	12 AWG	12 AWG	12 AWG	10 AWG
QR-2	6.9	1/3	115 / 60 / 1	5-15P	15 amp	14 AWG	12 AWG	12 AWG	10AWG	10 AWG	10 AWG
QF-1	8.5	3/4	115 / 60 / 1	5-15P	15 amp	14 AWG	12 AWG	10 AWG	10 AWG	8 AWG	8 AWG
QF-2	12.9	1	115 / 60 / 1	5-15P	20 amp	12 AWG	10 AWG	8 AWG	8 AWG	8 AWG	6 AWG
QR-1G	5.8	1/4	115 / 60 / 1	5-15P	15 amp	14 AWG	14 AWG	12 AWG	12 AWG	10 AWG	10 AWG
QR-2G	7.2	1/3	115 / 60 / 1	5-15P	15 amp	14 AWG	12 AWG	12 AWG	10 AWG	10 AWG	8 AWG
QVR-1	5.6	1/4	115 / 60 / 1	5-15P	15 amp	14 AWG	14 AWG	12 AWG	12 AWG	12 AWG	10 AWG
QVR-2	6.9	1/3	115 / 60 / 1	5-15P	15 amp	14 AWG	12 AWG	12 AWG	10 AWG	10 AWG	10 AWG
QVF-1	8.5	3/4	115 / 60 / 1	5-15P	15 amp	14 AWG	12 AWG	10 AWG	10 AWG	8 AWG	8 AWG
QVF-2	12.9	1	115 / 60 / 1	5-15P	20 amp	12 AWG	10 AWG	8 AWG	8 AWG	8 AWG	6 AWG
QVR-1G	5.8	1/4	115 / 60 / 1	5-15P	15 amp	14 AWG	14 AWG	12 AWG	12 AWG	10 AWG	10 AWG
QVR-2G	7.2	1/3	115 / 60 / 1	5-15P	15 amp	14 AWG	12 AWG	12 AWG	10 AWG	10 AWG	8 AWG

Note:

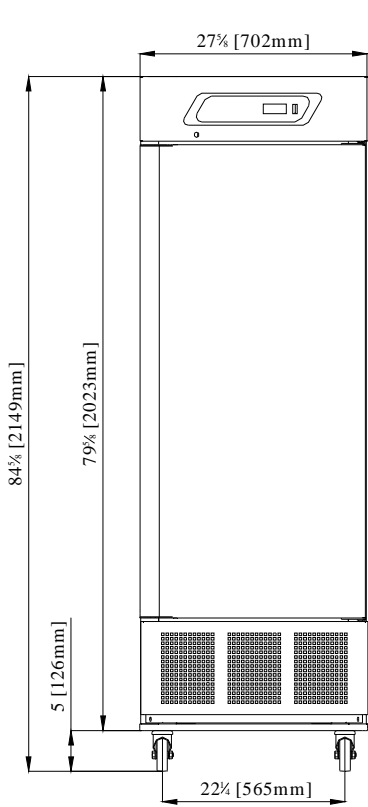
* Breaker sizes are recommended by the manufacturer to protect the equipment by over load; this breaker only must be dedicated for the equipment.

** If the equipments are installed far away of the circuit breaker, these are the wire gauge recommend to connect the appliance; if the distance is higher that the chart values, please contact an electrician.

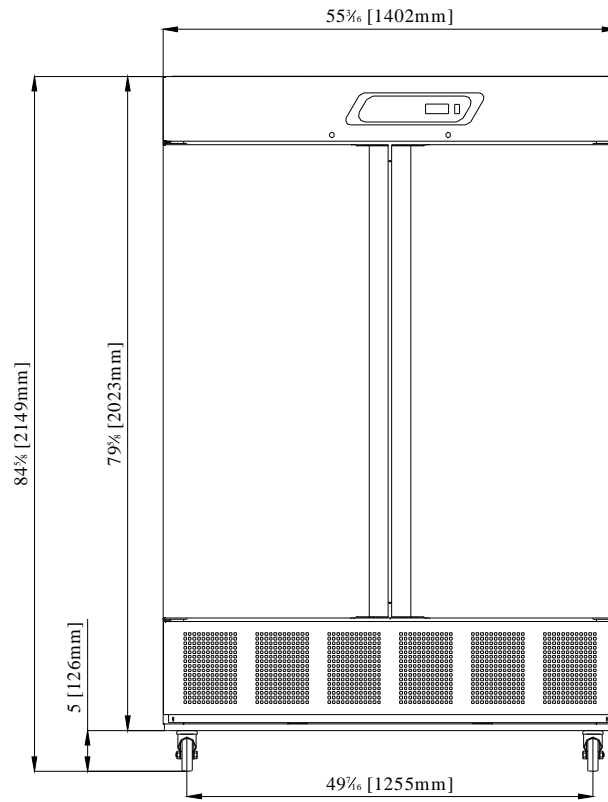
*** Distance in feet from the breaker or the power supply to the appliance.

2.1 DIMENSIONS

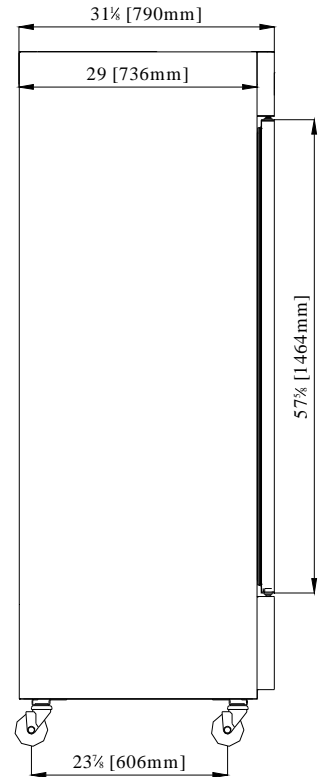
MODEL'S: Q'S



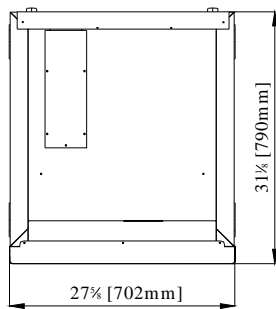
FRONT VIEW Q'S-1



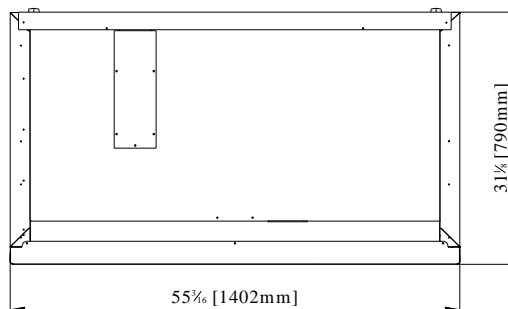
FRONT VIEW Q'S-2



SIDE VIEW
Q'S-1 & Q'S-2

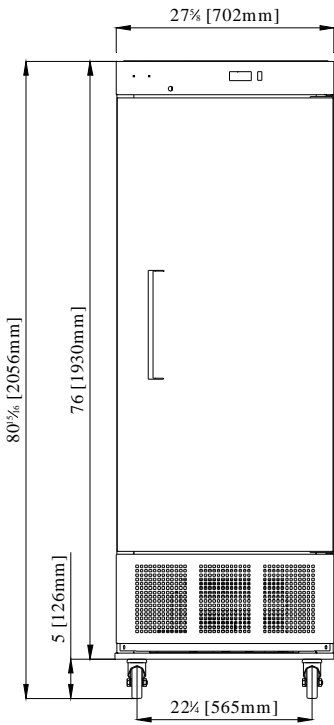


TOP VIEW Q'S-1

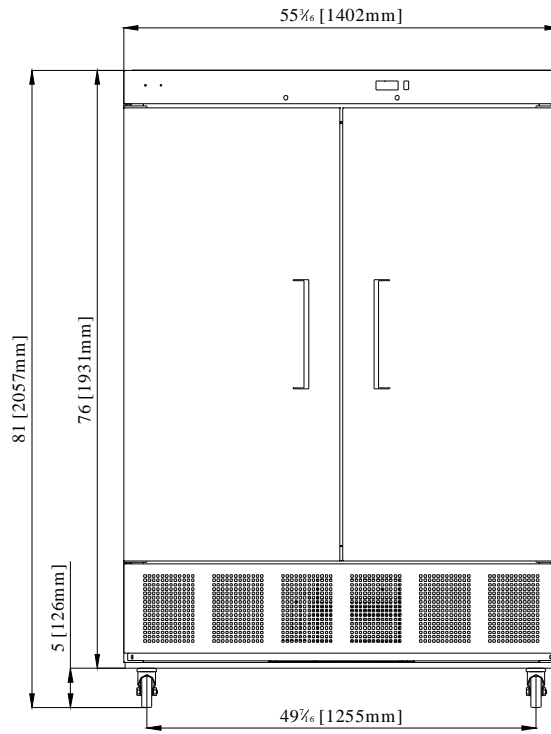


TOP VIEW Q'S-2

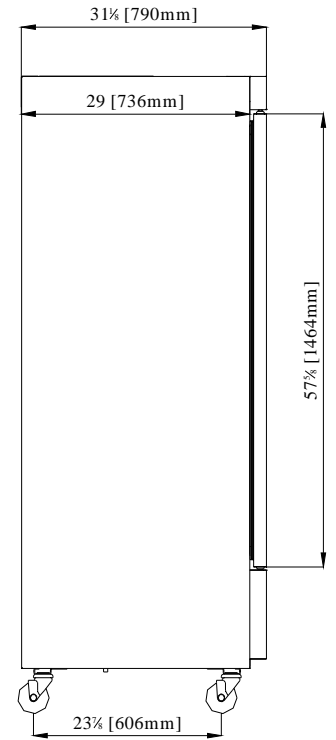
MODEL'S: QV'S



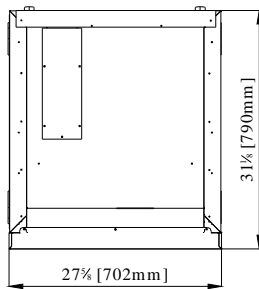
FRONT VIEW QV'S-1



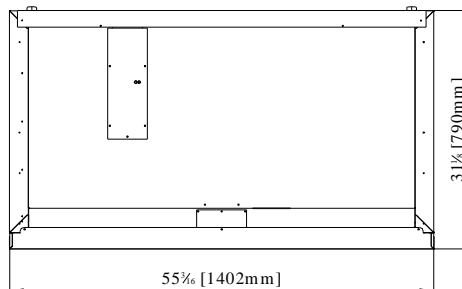
FRONT VIEW QV'S-2



SIDE VIEW
QV'S-1 & QV'S-2

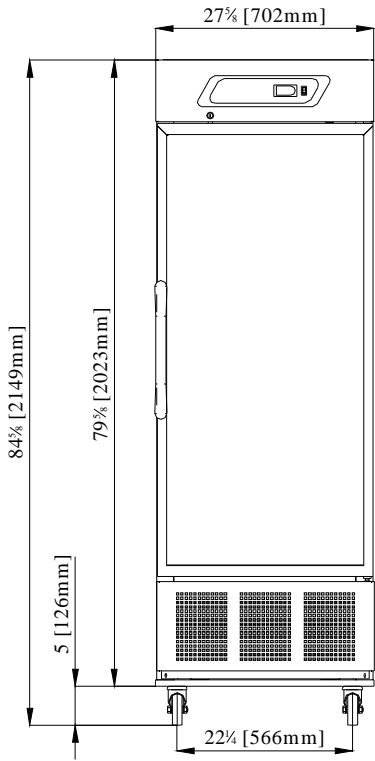


TOP VIEW QV'S-1

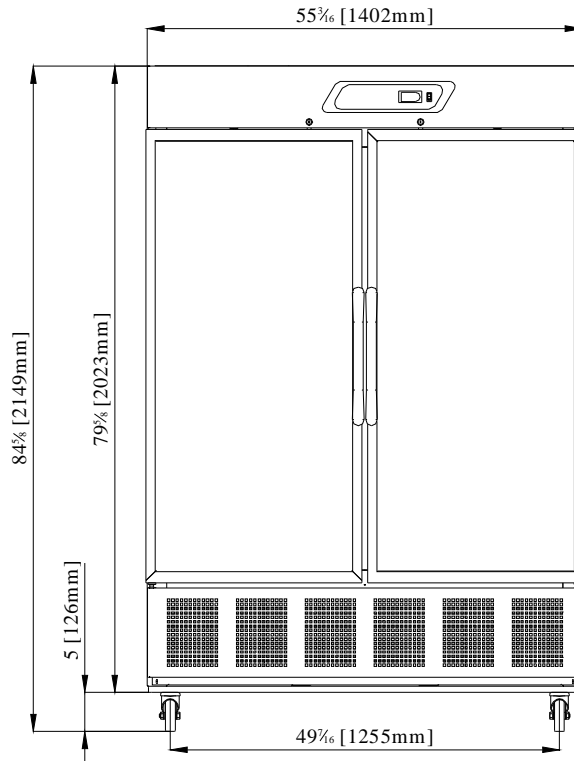


TOP VIEW QV'S-2

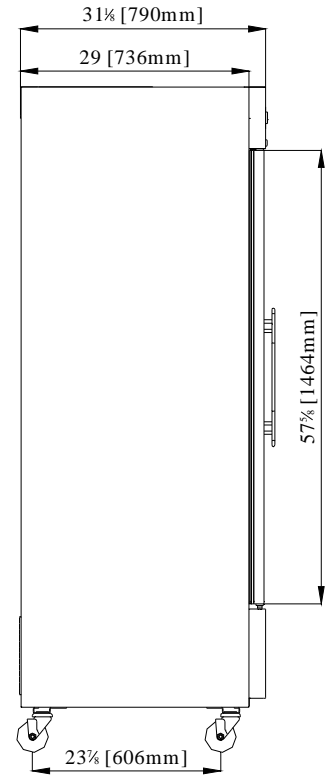
MODEL'S: Q'S-G



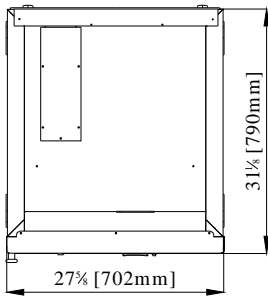
FRONT VIEW Q'S-1G



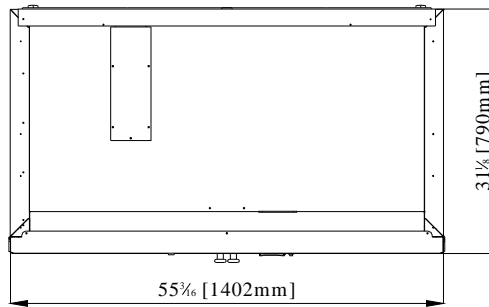
FRONT VIEW Q'S-2G



SIDE VIEW
Q'S-1G & Q'S-2G

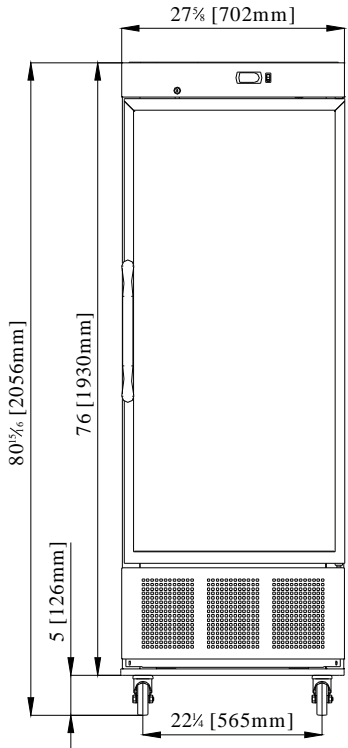


TOP VIEW Q'S-1G

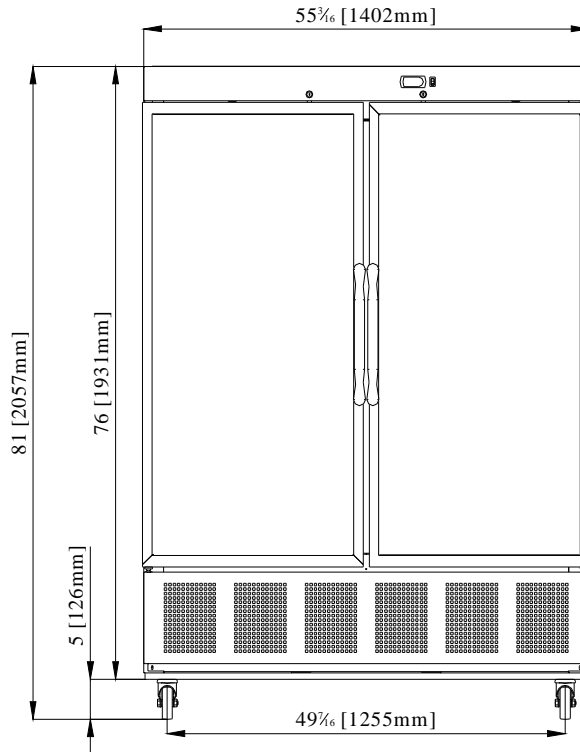


TOP VIEW Q'S-2G

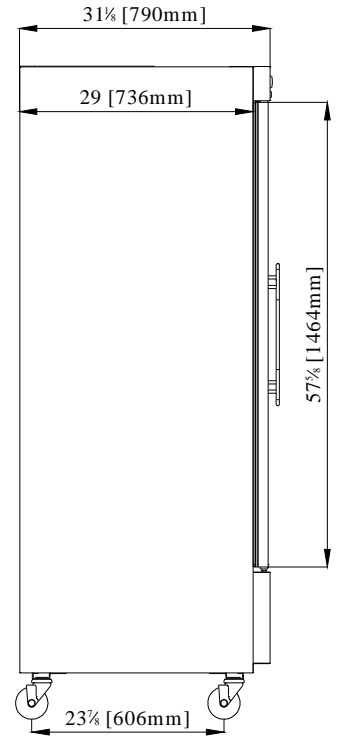
MODEL'S: QV'S-G



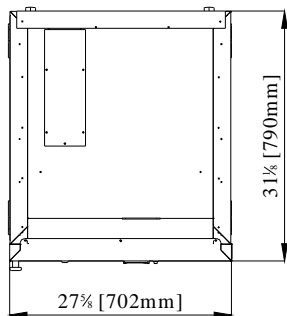
FRONT VIEW QV'S-1G



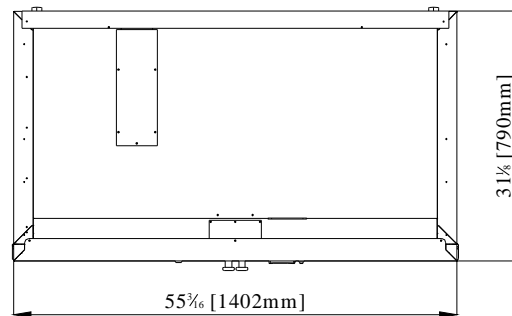
FRONT VIEW QV'S-2G



SIDE VIEW
 QV'S-1G & QV'S-2G



TOP VIEW QV'S-1G



TOP VIEW QV'S-2G

3 INSTALLATION

3.1 UNCRATING

Cut and remove the outer packaging. ***Cut the 4 clamps that hold the refrigerator to the skid. Lift the unit off the skid.***

If machine was laid down during this operation remember to leave the cabinet upright for 24 hours before plugging into power source.

3.2 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 unit and contents. For the most efficient operation, be sure to provide good air circulation inside and outside of the unit.

Inside cabinet:

The first cleaning must be made when you unpack the machine and before switching it on. You have to clean it with water and with mild detergent. When it is clean and dry, insert the accessories in the appropriate places, for the best use of the user.

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. The place where the refrigerator is placed must be open and clean, avoiding that the fan of the condensing unit absorbs materials which are deposited then into the condenser blades and coil, which can produce failures.

3.3 DATA PLATE

The data plate is located inside the cabinet, near the top front left corner. Under no circumstances should the data plate be removed from the unit. The data plate is essential to identify the particular features of your machine and is of great benefit to installers, operators and maintenance personnel. It is recommended that, in the event the data plate is removed, you copy down the essential information in this manual for reference before installation.

3.4 INSTALLATION OF CASTORS OR OPTIONAL LEGS

To obtain maximum strength and stability of the unit, be sure that castors are secure and unit is level. Castors, as well as shims and tool to assembly the castors are supplied in a box inside the machine. The bearing race on the castor or the top edge of the leg must make firm contact with the rail. Steps:

- 1) Cut the 4 straps that hold the refrigerator to the pallet. 2 at the front and 2 at the back
- 2) Slide machine until castors holes are exposed.
- 3) Carefully lift that end of the unit high enough to install the casters
- 4) Repeat the same operation by rotating the machine to expose the other 2 castors holes

CAUTION! NEVER LAY MACHINE ON ITS BACK! IF NEEDED LEAVE THE CABINET UPRIGHT FOR 24 HOURS BEFORE PLUGGING INTO POWER SOURCE. TO AVOID DAMAGE TO LOWER FRAME, SLOWLY RAISE UNIT TO UPRIGHT POSITION

FAILURE TO MEET THIS REQUIREMENT CAN CAUSE COMPRESSOR FAILURE AND UNIT DAMAGE THAT WILL NOT BE COVERED UNDER WARRANTY!

- 5) Thread castors into the underside of the cabinet frame rail. *FIG. 1.* Castors with brake must go at the front. Castors w/o brake at the back of the unit.
- 6) For levelling, insert the shim between the castor and the frame rail. Install the desired number of shims; make sure the slot of the shim is in contact with the threaded stem of the castor. *FIG.2*
- 7) If more than one shim is used, turn the slot at a 90° angle so they are not in line
- 8) Turn the bearing race clockwise to tighten and secure the castor by tightening the anchoring bolt with a ¾ inch open-end wrench or the tool provided. *FIG. 3*



FIG. 1

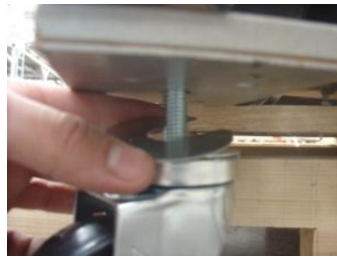


FIG.2



FIG. 3

Optional legs are hand- tightened. Thread leg into cabinet bottom frame rail. The end of the leg is adjustable to easy levelling.

Caution! *To avoid damage to lower rail assembly, slowly raise unit to upright position*

Caution! *When lifting unit remember to leave the cabinet upright for 24 hours before plugging into power source. Failure to meet this requirement can cause compressor failure and unit damage*

3.5 LEVELING

Set unit in its final location. A level cabinet looks better and will perform better. Effective condensate removal and door operation will be effected by levelling. Machine must be levelled front to back and side to side with a level. Casters include shims for levelling. Insert the shim between the castor and the frame rail. (*See installation of castors*). Lock front castors so cabinet doesn't move.

Ensure the drain hose or hoses (bottom rear side of the cabinet) are positioned in the pan. Free plug and cord (do not plug in yet) and place the unit close enough to the electrical supply so extension cords are never used.

3.6 ELECTRICAL CONNECTIONS

Refer to the amperage data on this manual or on data plate and your local code or the National Electrical Code to be sure unit is connected to the proper power source. Verify correct incoming voltage according to the Data Plate information.

A protected circuit of the correct voltage and amperage must be run for connection of the supply cord. Machine must be grounded and connected in accordance with NEC Article 422 Appliances.



DANGER: *Power must be turned off and disconnected from the power source whenever performing maintenance, repair or cleaning the condensing unit. If machine still running when power is off, disconnect power at the circuit breaker before unplugging the machine.*



WARNING: *Machine and compressor warranties are void if failure is due to improper electrical installation.*

3.7 SHELVING INSTALLATION

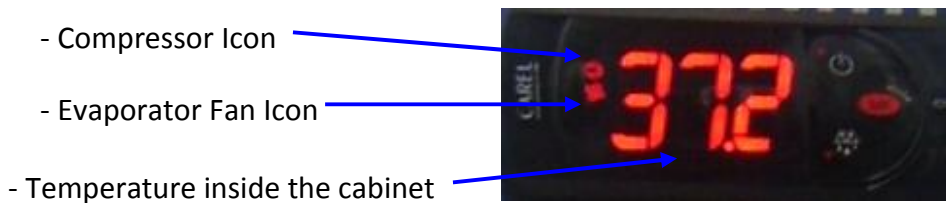
- 1) Hook shelf rails onto shelf pilasters
- 2) Position all two shelf rails equal in distance from the floor for level shelves
- 3) Wire shelves are oriented so that cross support bars are facing down

Note: Single door Reach-ins include an airflow guard on the rear of the shelves as well as a lip to maintain an air space at the rear of the cabinet

- 4) Place shelves on shelf clips making sure all corners are seated properly

4 OPERATION

After plugging your appliance in at the power supply, set the ON/Off button in the ON position, now you should see the temperature in the display of the controller, the compressor and fan icon will be flashing by 3 minutes, after of this time the compressor will run.



Verify you don't have any alarms in the temperature controller, if after turn ON the equipment the controller show you some alarm, take the number of this alarm, then call at the technical service, they will help you to fix the problem.

Note: The controller of the equipment is programmed to show you the temperature in Fahrenheit degrees, to change to Celsius degrees see point 4.2.

Description of Buttons in the Controller



- To increase Set Point of Temperature.
- To Turn On/Off the compressor without unplug the equipment (press and hold 3 seconds)
- To Change the set point
- To access at programming mode
- To decrease Set Point of Temperature.
- To force a manual defrost (press and hold 3 seconds)

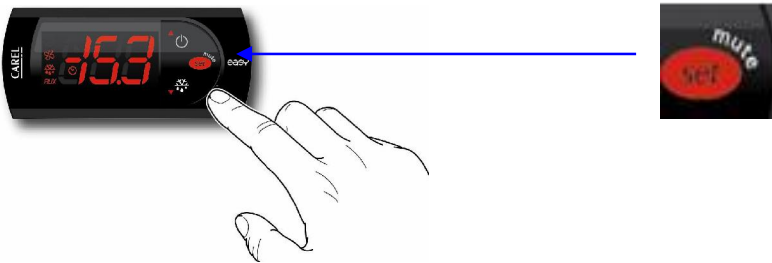
4.1 Changing the Set Point of the temperature in the controller.

Already the controller has a set point of temperature programmed from the factory to assure the correctly function of the equipment (see the chart with general specs), if you wish, you can change the set point of temperature, for do this, follow the next steps

Note:

If you move the set point of temperature you also are affected the behavior of the equipment. You have limits to increase or decrease the set point of temperature to keep the correctly function of the equipment, any change in the parameters made by the user different from factory configuration, are under costumer responsibility.

1.-Push the SET button for 1 second, then you should see a flashing number, release the button



2.-If you want increase the value of the set point for a new temperature, press the button UP arrow (see the picture below), press this button to reach the wish value, release the button and then press the SET button to keep and save the new value.



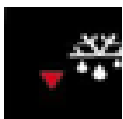
Note:

The maximum value you can set in the controller is:

For refrigerators: 5°C (40°F)

For freezers: -16°C (2°F)

3.- Or, if you wish decrease the value of the set point for a new temperature, press the button DOWN arrow (see the picture below), press this button to reach the desired value, release the button and then press the SET button to keep and save the new value.



Note:

The minimum value you can set in the controller is:

For refrigerators: -1°C (30°F)

For freezers: -23°C (9°F)

4.2 Changing the reading temperature from °F to °C or vice versa

To change the reading of the temperature from °F to °C or vice versa, you need access at the programming mode in the controller, to do this, press and hold the SET button for 5 seconds until see the “PS” in the display, release the button, press just one time the SET button, now you will see the number “0” (cero), with the button UP arrow set a value of “22”, then press the SET button, you will see the “PS” again, now with the button DOWN arrow find the parameter “EZY”, press just one time the SET button, now you will see a number, for example “1, 2, 3 or 4”, with the button UP or DOWN arrow set a value according at the charts

For Refrigerators	EZY Value	Application
Temperature in °F	3	Refrigeration
Temperature in °C	4	Refrigeration

For Freezers	EZY Value	Application
Temperature in °F	1	Freezer
Temperature in °C	2	Freezer
Temperature in °F	3	Refrigeration
Temperature in °C	4	Refrigeration

Note:

The freezer equipment can be used like a refrigerator if you wish, just select the value of the parameter “EZY” according at the chart above. The refrigerators never must be used like a freezer.

After you chose the value for the EZY parameter, press and hold the SET button for 5 seconds, now you will see the temperature in the display in °F or °C according at your election.

Other functions:

4.3 Manual Defrost

The manual defrost can be used in a necessary case, for do this, hold the button Down arrow for 5 seconds, then you will see in the display of the controller a snowflake icon (showed in bottom left side of the temperature indicator), this indicate that the equipment is in Defrost mode.

For exit of manual defrost, hold the button down arrow for 5 seconds, the snowflake icon will turn off, wait 2 min for the compressor start.

Note:

If the equipment doesn't reach the temperature, first verify that the controller doesn't been in defrost mode, you can check this if the snowflake icon is showed turn on in the display, remember, the controller will have defrost each 6 hrs by 25 min of duration. To end the defrost follow the previously step or unplug the equipment from the power supply.

Please be sure that modifications on the control has been done by a specialized technical staff or if you have any questions please contact your technical support. If the control haven't set upped correctly this could be damage and the warranty will not be covered by manufacturer.

5 MAINTENANCE

Stainless Steel Care and Cleaning

Proper cleaning of stainless steel requires soft cloths or plastic scouring pads. Never use steel pads, wire brushes or scrapers!

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

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. There are also stainless steel cleaners available which can restore and preserve the finish of the steels protective layer.

Never use an acid based cleaning solution! Many food products have an acidic content which can deteriorate the finish. Be sure to clean the ALL food products from any stainless steel surface. Common items include peppers, tomatoes and other vegetables.

Cleaning the Condenser Coil



DANGER: Power must be turned off and disconnected from the power source whenever performing maintenance, repair or cleaning the condensing unit.

Disconnect machine. Remove front bottom panel and carefully slide out the condensing unit.

The condenser coil requires regular cleaning; recommended is every 30-60 days, depending of the accumulation of dust and grease.

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. ***Be sure all electrical and mechanical parts are dry before turning on the power.***

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. Do not place filter material in front of condenser coil. This material blocks air-flow to the coil similar to having a dirty coil!

If you keep the Condenser clean you will minimize your service expense and lower your electrical costs. 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 YOUR WARRANTY associated with the compressor or cost to replace the compressor!

To put back the condensing unit in its place, slide in the unit carefully. BE SURE DRAIN PIPE IS LOCATED OVER THE PAN. Replace front bottom panel.

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. Also, 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 do not require the use of tools or authorized service persons. The gaskets can be pulled out of the groove in the door and new gaskets can be “pressed” back into place.

Doors/Hinges

Over time and with heavy use doors the hinges may become loose. If it is noticed that the door is beginning to sag, it may become necessary to 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. In some cases this can require qualified service agents or maintenance personnel.

Drain Maintenance

Each unit has a drain located inside the unit which removes the condensation from the evaporator coil and evaporates it at 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 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 levelling 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; typically food product is found blocking drain lines causing water to back up and overflow the drain pans.

6 TROUBLE SHOOTING

Sometimes, working failures are due to simple causes which can be solved by the user. Before asking for the help of a qualified technician, you have to do some verification. These failures are not covered by the warranty:

- 1) Refrigerator doesn't work
 - a. Check out that machine is still connected
 - b. Check out ON/OFF button is at ON position.

- 2) Refrigerator doesn't reach temperature
 - a. Check out that the thermostat is not in OFF position
 - b. Check out that machine is not on defrost cycle
 - c. Ensure Equipment is in a ventilated place and removed min. 2" from any other appliance or heat source
 - d. The environment maximum temperature must be 38°C / 100 °F
 - e. To insure proper air flow, product must not be placed higher than the maximum level mark located on the internal wall of the unit
 - f. If FREEZER, check out temperature is not Celsius
 - g. Check out that gasket is in good conditions and door is sealed
 - h. Check out fan is moving. Open the door and press and hold door switch for verification
 - i. Don't put any food inside up to Reach in is at temperature
 - j. If FREEZER, food must be previously frozen before going to the cabinet
 - k. Be sure castors or legs were installed
 - l. If FREEZER, end user must defrost unit and wait if afterwards unit works

- 3) There is water inside the refrigerator
 - a. Check out that drain pan inside the cabinet is in position
 - b. Check out that there is not food clogging the drain line.

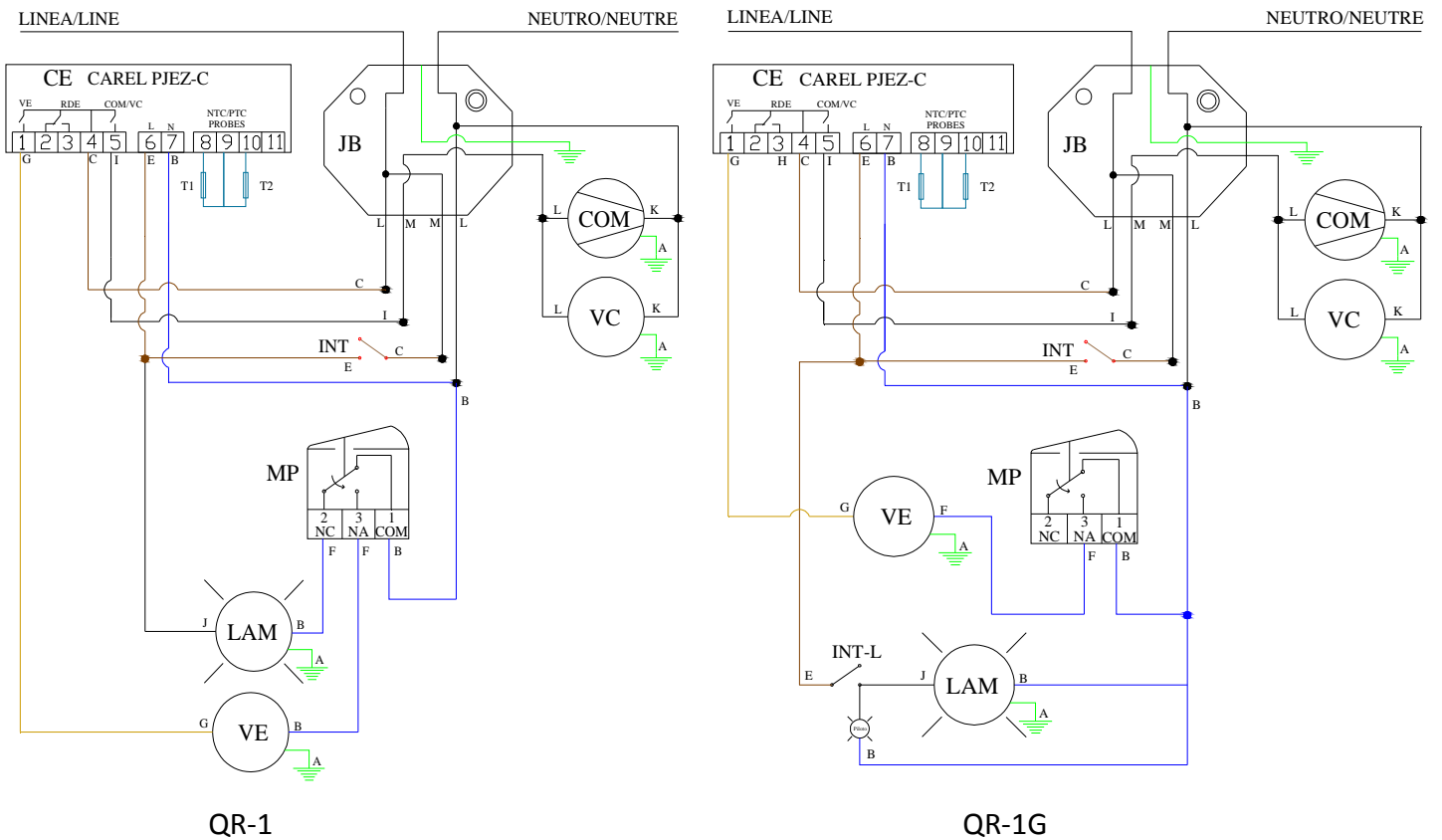
- 4) There is water under the refrigerator
 - a. Check out that the drain pipe is over the pan
 - b. Check out cabinet is level

Warning: To assure proper operation of equipment it is recommended that the unit is on for 8 hours prior to the introduction of perishables.

7 WIRING DIAGRAMS

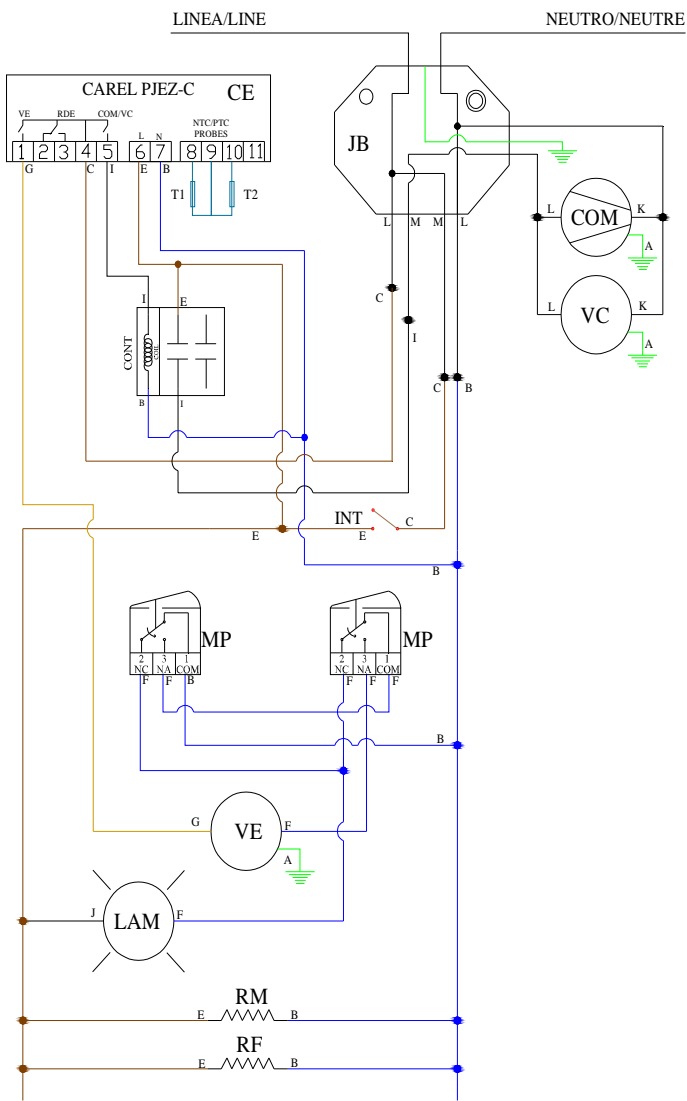
QR – 1 & QR-1G

Color Estándar / Standard Color	Calibre AWG (AWG Size)	Ref.	Símbolo /Symbol	Descripción/Description	Símbolo /Symbol	Descripción/Description
Verde/Green	18 AWG	A	VE	Ventilador de Evaporador/Evaporator's Fan	RDE	Resistencia de Descarche/Defrost Resistance
Azul Oscuro/Dark Blue	16 AWG	B	COM	Compresor/Compressor	RG	Resistencia de Desague/Drain Resistance
Marrón/Brown	16 AWG	C	VC	Ventilador de Condensador/Condenser Fan	CONT	Contacto/Auxiliar Contactor
Azul Claro/Light Blue	18 AWG	D	LAM	Lampara/Light	JB	Araña de Conexiones/Juction Box
Marrón/Brown	18 AWG	E	CE	Controlador Electrónico/Electronic Controller	TA	Termostato Mécanico/Thermostat
Azul Oscuro/Dark Blue	18 AWG	F	MP	Micro-interruptor Puerta/Door Micro-Switch	T1	Sensor de Ambiente/ Environment Sensor
Amarillo/Yellow	18 AWG	G	INT	Interruptor Principal/Main Switch	T2	Sensor Deshielo/ Defrost Sensor
Rojo/Red	18 AWG	H	RM	Resistencia de Marco/Frame Resistance	INT-L	Interruptor Lámpara/Ligth Switch
Negro/Black	16 AWG	I				
Blanco/White	18 AWG	J				
Blanco/White	14 AWG	K				
Negro/Black	14 AWG	L				
Negro Rayado/Black Striped	14 AWG	M				

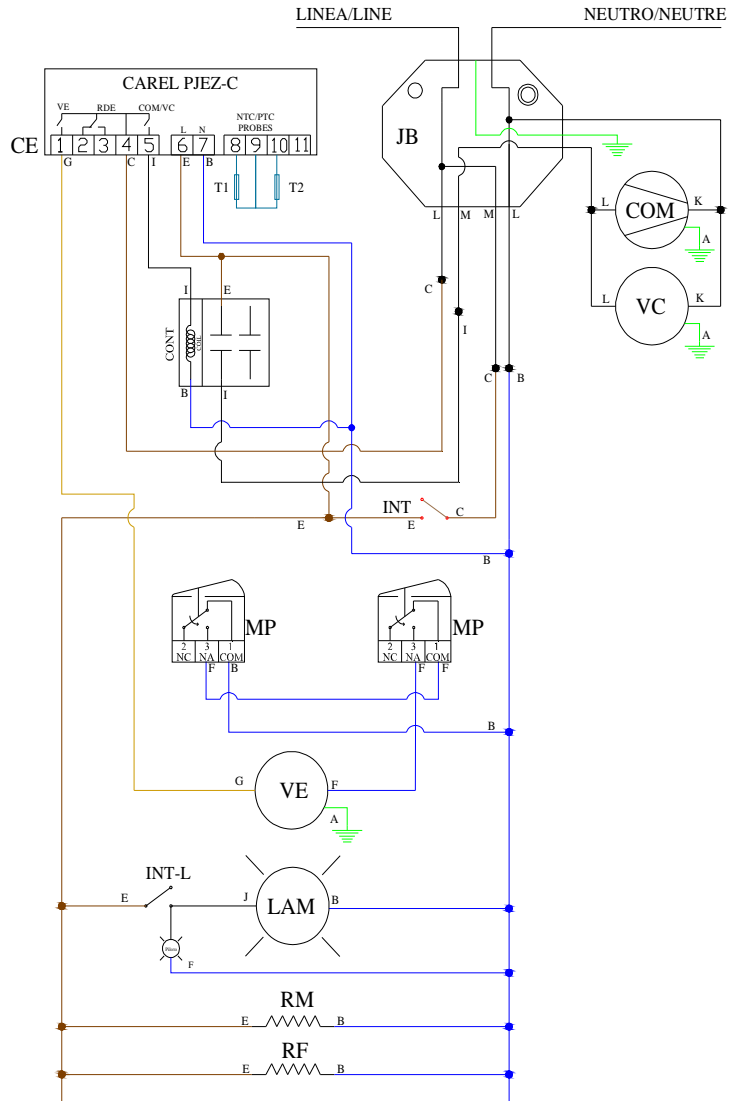


QR – 2 & QR-2G

Color Estándar / Standard Color	Calibre AWG (AWG Size)	Ref.	Símbolo /Symbol	Descripción/Description	Símbolo /Symbol	Descripción/Description
Verde/Green	18 AWG	A	VE	Ventilador de Evaporador/Evaporator's Fan	RDE	Resistencia de Descarche/Defrost Resistance
Azul Oscuro/Dark Blue	16 AWG	B	COM	Compresor/Compressor	RG	Resistencia de Desague/Drain Resistance
Marrón/Brown	16 AWG	C	VC	Ventilador de Condensador/Condenser Fan	CONT	Contacto/Auxiliar Contactor
Azul Claro/Light Blue	18 AWG	D	LAM	Lampara/Light	JB	Araña de Conexiones/Juction Box
Marrón/Brown	18 AWG	E	CE	Controlador Electrónico/Electronic Controller	TA	Termostato Mécanico/Thermostat
Azul Oscuro/Dark Blue	18 AWG	F	MP	Micro-interruptor Puerta/Door Micro-Switch	T1	Sensor de Ambiente/ Environment Sensor
Amarillo/Yellow	18 AWG	G	INT	Interruptor Principal/Main Switch	T2	Sensor Deshielo/ Defrost Sensor
Rojo/Red	18 AWG	H	RM	Resistencia de Marco/Frame Resistance	INT-L	Interruptor Lámpara/Ligh Switch
Negro/Black	16 AWG	I				
Blanco/White	18 AWG	J				
Blanco/White	14 AWG	K				
Negro/Black	14 AWG	L				
Negro Rayado/Black Striped	14 AWG	M				



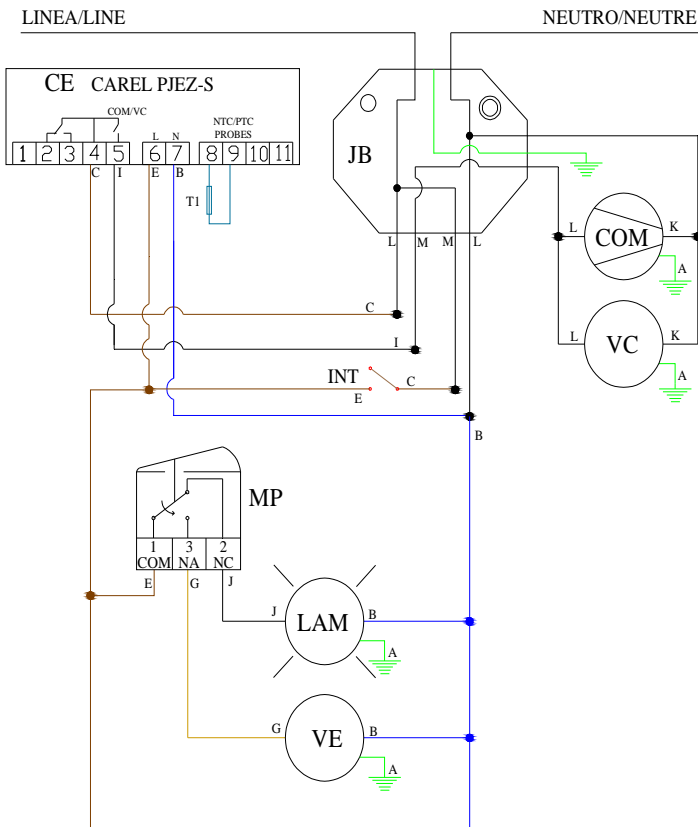
QR-2



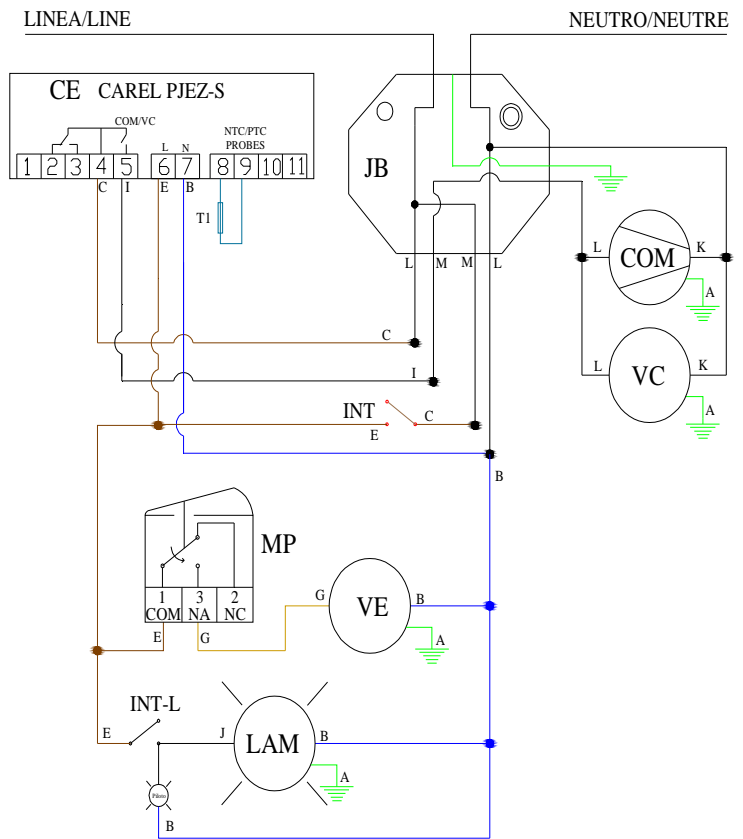
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QVR – 1 & QVR-1G

Color Estándar / Standard Color	Calibre AWG (AWG Size)	Ref.	Símbolo /Symbol	Descripción/Description	Símbolo /Symbol	Descripción/Description
Verde/Green	18 AWG	A	VE	Ventilador de Evaporador/Evaporator's Fan	RDE	Resistencia de Descarche/Defrost Resistance
Azul Oscuro/Dark Blue	16 AWG	B	COM	Compresor/Compressor	RG	Resistencia de Desague/Drain Resistance
Marrón/Brown	16 AWG	C	VC	Ventilador de Condensador/Condenser Fan	CONT	Contactora/Auxiliar Contactor
Azul Claro/Light Blue	18 AWG	D	LAM	Lampara/Light	JB	Araña de Conexiones/Junction Box
Marrón/Brown	18 AWG	E	CE	Controlador Electrónico/Electronic Controller	TA	Termostato Mecánico/Thermostat
Azul Oscuro/Dark Blue	18 AWG	F	MP	Micro-interruptor Puerta/Door Micro-Switch	T1	Sensor de Ambiente/ Environment Sensor
Amarillo/Yellow	18 AWG	G	INT	Interruptor Principal/Main Switch	T2	Sensor Deshielo/ Defrost Sensor
Rojo/Red	18 AWG	H	RM	Resistencia de Marco/Frame Resistance	INT-L	Interruptor Lámpara/Ligh Switch
Negro/Black	16 AWG	I				
Blanco/White	18 AWG	J				
Blanco/White	14 AWG	K				
Negro/Black	14 AWG	L				
Negro Rayado/Black Striped	14 AWG	M				



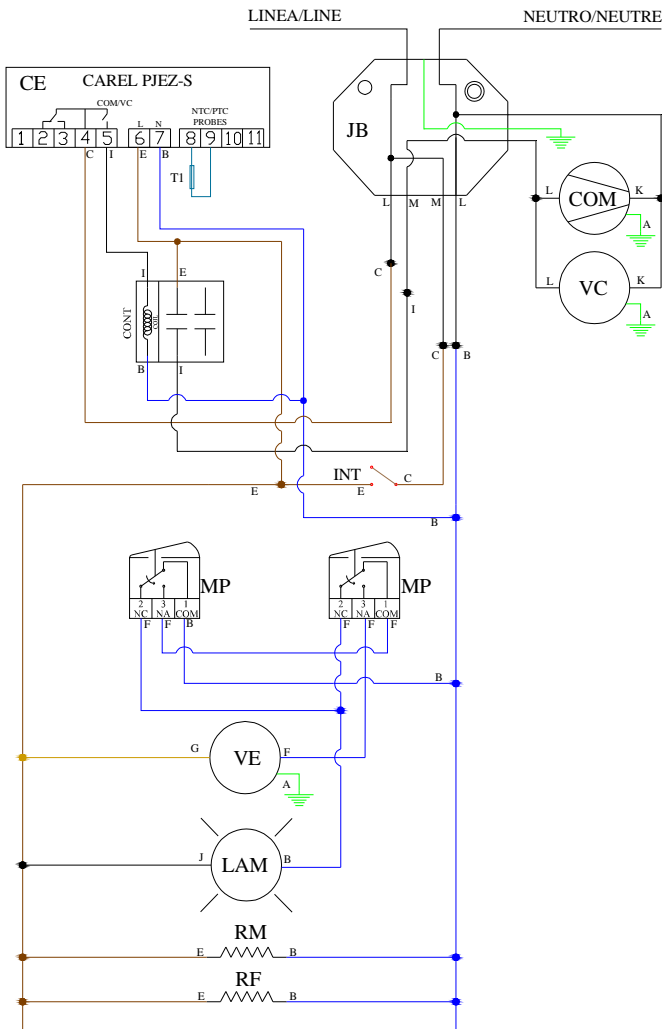
QVR-1



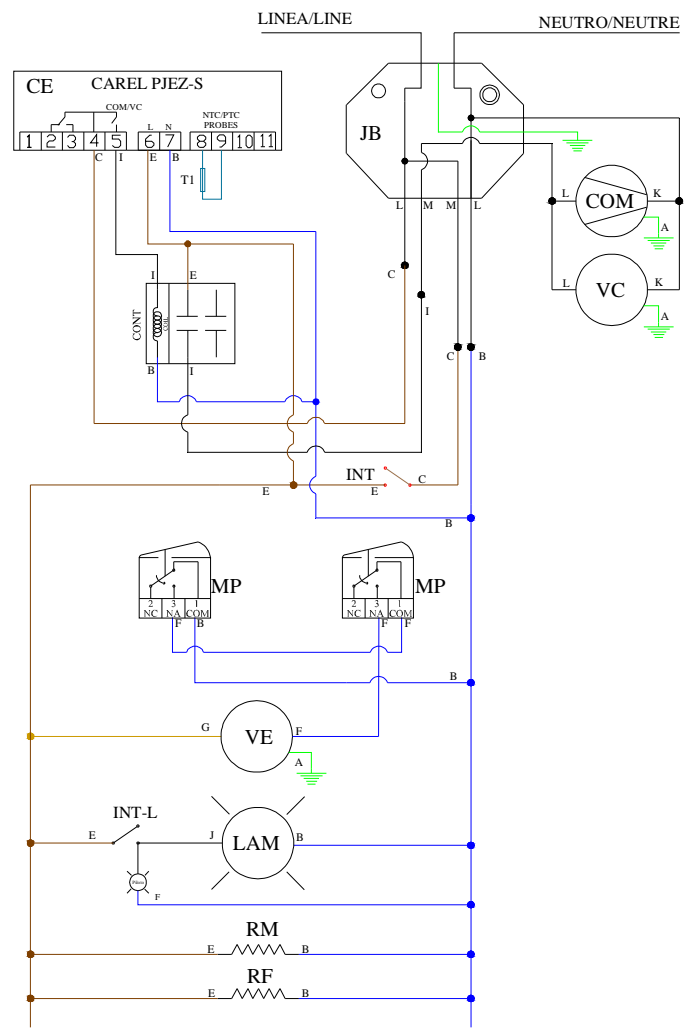
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QVR – 2 & QVR-2G

Color Estándar / Standard Color	Calibre AWG (AWG Size)	Ref.	Símbolo /Symbol	Descripción/Description	Símbolo /Symbol	Descripción/Description
Verde/Green	18 AWG	A	VE	Ventilador de Evaporador/Evaporator's Fan	RDE	Resistencia de Descarche/Defrost Resistance
Azul Oscuro/Dark Blue	16 AWG	B	COM	Compresor/Compressor	RG	Resistencia de Desague/Drain Resistance
Marrón/Brown	16 AWG	C	VC	Ventilador de Condensador/Condenser Fan	CONT	Contactora/Auxiliar Contactor
Azul Claro/Light Blue	18 AWG	D	LAM	Lampara/Light	JB	Araña de Conexiones/Junction Box
Marrón/Brown	18 AWG	E	CE	Controlador Electrónico/Electronic Controller	TA	Termostato Mecánico/Thermostat
Azul Oscuro/Dark Blue	18 AWG	F	MP	Micro-interruptor Puerta/Door Micro-Switch	T1	Sensor de Ambiente/ Environment Sensor
Amarillo/Yellow	18 AWG	G	INT	Interruptor Principal/Main Switch	T2	Sensor Deshielo/ Defrost Sensor
Rojo/Red	18 AWG	H	RM	Resistencia de Marco/Frame Resistance	INT-L	Interruptor Lámpara/Ligh Switch
Negro/Black	16 AWG	I				
Blanco/White	18 AWG	J				
Blanco/White	14 AWG	K				
Negro/Black	14 AWG	L				
Negro Rayado/Black Striped	14 AWG	M				



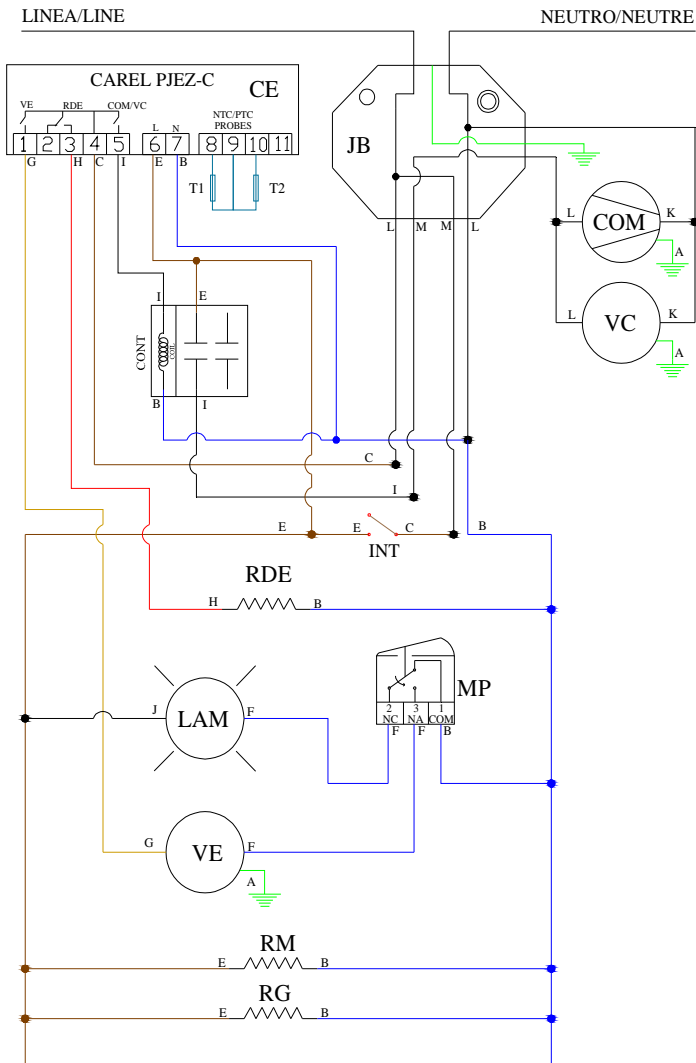
QVR-2



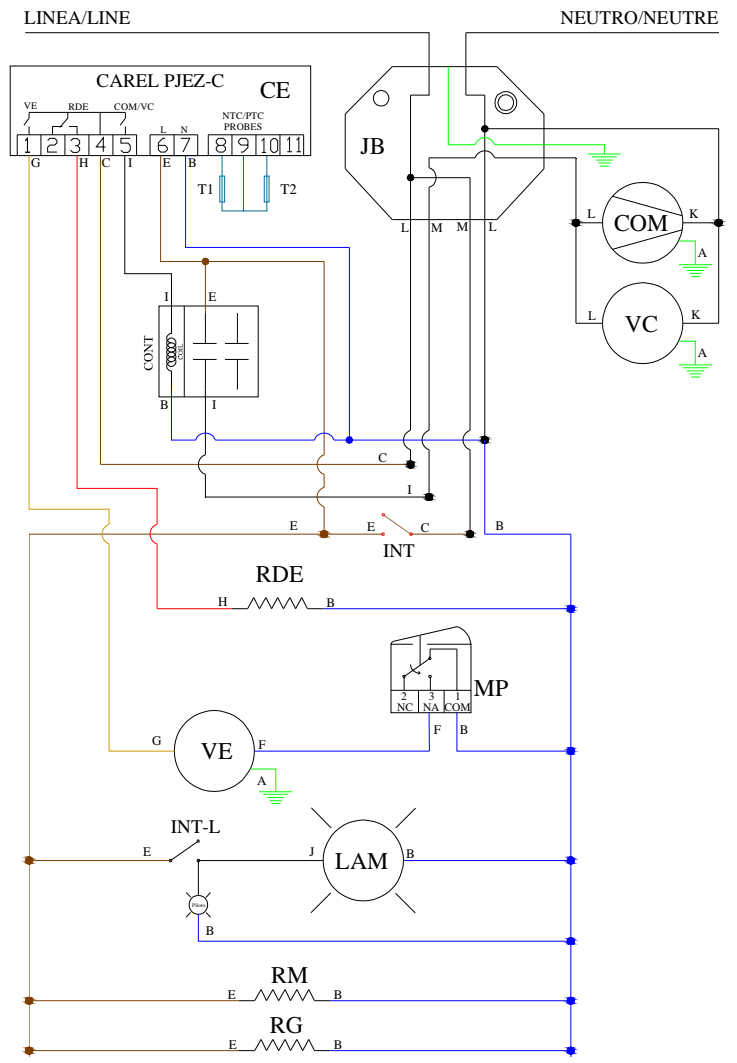
QVR-2G

QF/QVF – 1 & QF/QVF – 1G

Color Estándar / Standard Color	Calibre AWG (AWG Size)	Ref.	Símbolo /Symbol	Descripción/Description	Símbolo /Symbol	Descripción/Description
Verde/Green	18 AWG	A	VE	Ventilador de Evaporador/Evaporator's Fan	RDE	Resistencia de Descarche/Defrost Resistance
Azul Oscuro/Dark Blue	16 AWG	B	COM	Compresor/Compressor	RG	Resistencia de Desague/Drain Resistance
Marrón/Brown	16 AWG	C	VC	Ventilador de Condensador/Condenser Fan	CONT	Contactador/Auxiliar Contactor
Azul Claro/Light Blue	18 AWG	D	LAM	Lampara/Light	JB	Araña de Conexiones/Junction Box
Marrón/Brown	18 AWG	E	CE	Controlador Electrónico/Electronic Controller	TA	Termostato Mécanico/Thermostat
Azul Oscuro/Dark Blue	18 AWG	F	MP	Micro-interruptor Puerta/Door Micro-Switch	T1	Sensor de Ambiente/ Environment Sensor
Amarillo/Yellow	18 AWG	G	INT	Interruptor Principal/Main Switch	T2	Sensor Deshielo/ Defrost Sensor
Rojo/Red	18 AWG	H	RM	Resistencia de Marco/Frame Resistance	INT-L	Interruptor Lámpara/Ligh Switch
Negro/Black	16 AWG	I				
Blanco/White	18 AWG	J				
Blanco/White	14 AWG	K				
Negro/Black	14 AWG	L				
Negro Rayado/Black Striped	14 AWG	M				



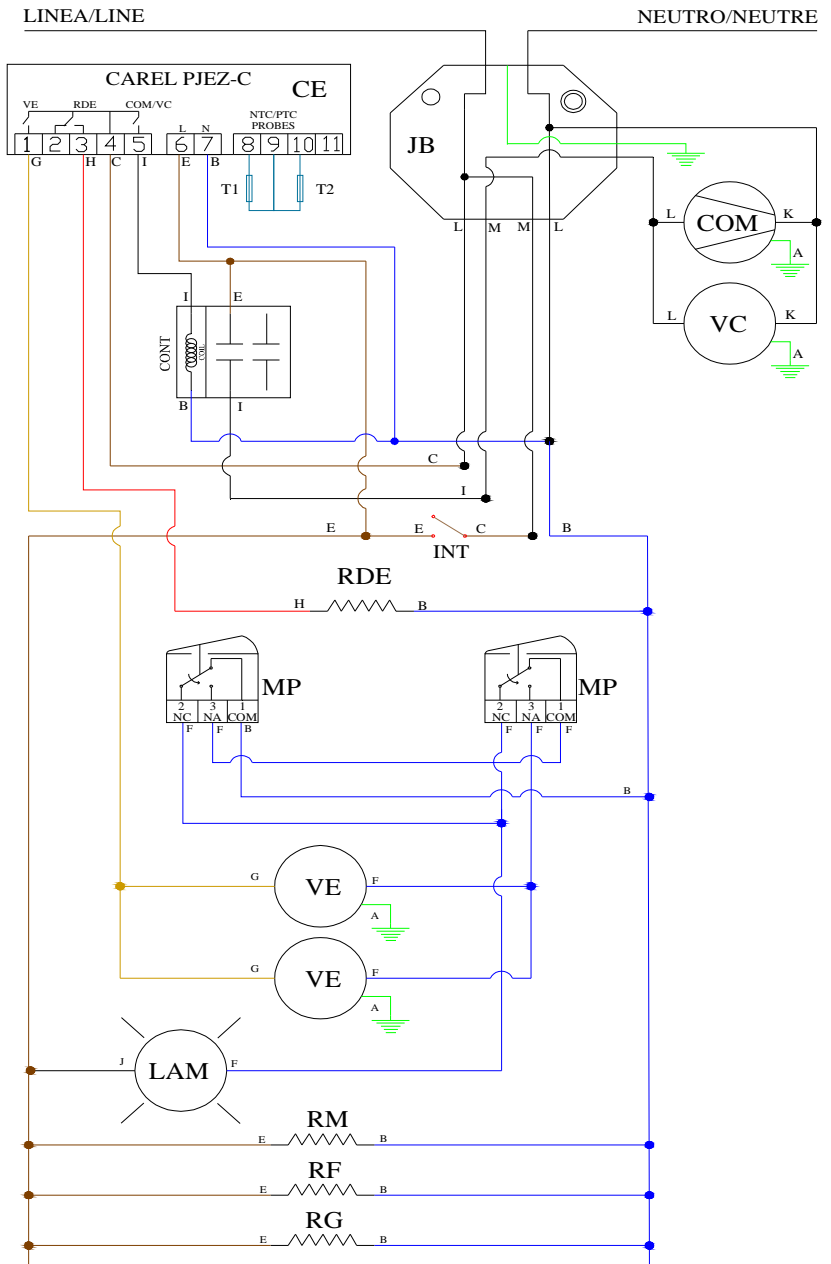
QF/QVF-1



QF/QVF-1G

QF/QVF – 2

Color Estándar / Standard Color	Calibre AWG (AWG Size)	Ref.	Símbolo /Symbol	Descripción/Description	Símbolo /Symbol	Descripción/Description
Verde/Green	18 AWG	A	VE	Ventilador de Evaporador/Evaporator's Fan	RDE	Resistencia de Descarche/Defrost Resistance
Azul Oscuro/Dark Blue	16 AWG	B	COM	Compresor/Compressor	RG	Resistencia de Desague/Drain Resistance
Marrón/Brown	16 AWG	C	VC	Ventilador de Condensador/Condenser Fan	CONT	Contactora/Auxiliar Contactor
Azul Claro/Light Blue	18 AWG	D	LAM	Lampara/Light	JB	Araña de Conexiones/Junction Box
Marrón/Brown	18 AWG	E	CE	Controlador Electrónico/Electronic Controller	TA	Termostato Mecánico/Thermostat
Azul Oscuro/Dark Blue	18 AWG	F	MP	Micro-interruptor Puerta/Door Micro-Switch	T1	Sensor de Ambiente/ Environment Sensor
Amarillo/Yellow	18 AWG	G	INT	Interruptor Principal/Main Switch	T2	Sensor Deshielo/ Defrost Sensor
Rojo/Red	18 AWG	H	RM	Resistencia de Marco/Frame Resistance	INT-L	Interruptor Lámpara/Ligh Switch
Negro/Black	16 AWG	I				
Blanco/White	18 AWG	J				
Blanco/White	14 AWG	K				
Negro/Black	14 AWG	L				
Negro Rayado/Black Striped	14 AWG	M				



QF/QVF-2

8 WARRANTY

One Year Parts & Labour Warranty: Fagor Commercial, Inc. (“Fagor”) warrants to the first-end-user purchaser (the “User”) that the Fagor brand equipment sold hereunder, except for parts and accessories which carry the warranty of a supplier (the “Equipment”) will be free from defects in material and factory workmanship under normal conditions of use and maintenance for a period of (1) one year from the date of Installation (Warranty Commencement date), but in no event to exceed (15) fifteen months from the date of shipment. Warranty is Not Transferable

Warranty Coverage: If there is a defect in material or factory workmanship covered by this Warranty reported to Fagor during the period the applicable Warranty is in force and effect, Fagor will repair or replace, at Fagor’s option, that part of the Equipment that has become defective. Fagor will cover labour cost within one year from the Warranty Commencement date or 15 months from shipment date, whichever occurs first. Fagor shall bear all labour costs in connection with the installation of these replacement parts, provided that, the installation is conducted by Fagor or its authorized representative. Charges for warranty travel time to round trip total of (2) two hours or up to 100 miles total. Any charges exceeding those stated herein or overtime rates must have prior authorization by Fagor.

Additional Four Year Compressor Part Warranty: In addition to the warranty set above. Fagor warrants the compressor (part only) for an additional four (4) years based on the installation date. This warranty is for defects both in workmanship and material under the normal and proper use and maintenance service. The four (4) year extended warranty only applies to hermetically sealed parts of the compressor and does not apply to any other part or component, including, but not limited to cabinet, temperature control, refrigerant, motor starting equipment, fan assembly, or any other electrical or mechanical component.

The original purchaser shall be responsible for returning the defective compressor to Fagor prepaid. This warranty shall be void if the compressor, in Fagor’s sole judgement, has been subjected to misuse, neglect, alteration or accident, operated contrary to the recommendations specified by the Unit manufacturer, repaired or altered by anyone other than Fagor in any way so as, in Fagor’s sole judgement, to affect its quality or efficiency or if the serial number has been altered, defaced or removed. This warranty does not apply to a compressor in any unit that has been moved from the location where it was originally installed.

Parts Warranty Coverage: Fagor warrants all new machine parts produced or authorized by Fagor to be free from defects in material and workmanship for a period of 90 days from the Warranty Commencement Date. If any defect in material and workmanship is found to exist within the warranty period, Fagor will replace the defective part without charge. Defective parts become the property of Fagor.

Fagor will have no responsibility to honor claims received after the date the applicable Warranty expires. Notwithstanding the foregoing, any claim with reference to the Equipment or any parts therefore for any cause shall be deemed waived unless submitted by the User to Fagor within thirty (30) days after the date the User discovered, or should have discovered, the claim. In connection with all claims under this Warranty, Fagor will have the right, at its own expense, to have its representatives inspect the

Equipment at the User's premises and to request all of User's records pertaining to the Equipment to determine whether a defect exists, whether the conditions set forth in this Warranty have been satisfied, and whether or not the applicable Warranty is in effect.

Exclusions from and Conditions to Warranty Coverage: This Warranty does not cover parts or accessories, which (a) carry the warranty of a supplier or (b) are, abused. Application of this Warranty is further conditioned upon the following:

- Installation. The Equipment must be properly installed in accordance with Fagor's installation procedures.
- No Alteration. The Equipment must not have been modified or altered from its condition at the date of original installation.
- Use. Fagor equipment is not designed for personal, family or household purposes, and its sale for such purposes is not intended. In the event the equipment is so used, this warranty shall be null and void, and the equipment shall be deemed to have been sold "as is-where is" without any warranty of any kind, including without limitation any warranty of title, non-infringement, merchant-ability or fitness for a particular purpose.
- Proper Maintenance and Operation. The Equipment must be properly maintained and operated in accordance with Fagor's maintenance and operating procedures. All service, labor and parts must be acquired from Fagor or its authorized service representative for the User's area.
- This warranty is void if failure is a direct result of handling &/or transportation, fire, water, accident, misuse, acts of god, attempted repair by unauthorized persons, improper installation, if serial number has been removed or altered, or if unit is used for purpose other than it was originally intended.

Failure to comply with any of these conditions will void this Warranty. In addition, this Warranty does not cover defects due to apparent abuse, misuse or accident.

The foregoing warranty is in lieu of and excludes all other warranties not expressly set forth herein, whether express or implied by operation of law or otherwise, including but not limited to any representation of performance and any implied warranties of title, non-infringement, merchantability or fitness for a particular purpose. No other warranties are authorized on behalf of Fagor unless specifically issued by Fagor.

Fagor shall have no liability for incidental or consequential losses, damages including without limitation or expenses, loss of sales, spoiled food, profits or goodwill, claims whether or not on account of refrigeration failure or punitive or exemplary damages directly or indirectly arising from the sale, handling or use of the Equipment or from any other cause relating thereto, whether arising in contract, tort, warranty, strict liability or otherwise. Fagor's liability hereunder in any case is expressly limited, at Fagor's election, to repair or replacement of Equipment or parts therefore or to the repayment of, or crediting the user with, an amount equal to the purchase price of such goods.



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