

# USER MANUAL

## *INSTALLATION, USE AND MAINTENANCE OF COMMERCIAL REFRIGERATION EQUIPMENT*

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**FARCO**  
— FOGEL —

# USER MANUAL: INSTALLATION, USE AND MAINTENANCE OF COMMERCIAL REFRIGERATION EQUIPMENT

## INTRODUCTION

This manual is a guide that offers recommendations for proper use of FARCO equipment.

## INITIAL CHECK WHEN RECEIVING EQUIPMENT

Before leaving the factory, each equipment is thoroughly inspected, and the proper functioning of the refrigeration system is tested with the goal of ensuring operation within the proper temperature range.

Check carefully that the equipment packaging is free of damage caused during transport. If any external damage is identified, there's a suspicion for internal damage as well. If this is the case, it is necessary that at the time of unpacking, a representative of the transport company is present.

If damage is severe and obvious, write the details on the receipt of delivery from the carrier and above the representative's signature note a brief description of the findings. The manufacturer is not held responsible for damages caused to the refrigeration equipment during transport and the co-signatory must register any complaint directly to the carrier. If you have ordered an additional accessory, verify it has been included.

## TRANSPORT OF REFRIGERATION EQUIPMENT

During transport, the unit must remain in an upright position. It is **NOT** recommended to place the cabinet horizontally. Equipment must be secured by the cabinet, avoid securing by removable parts: motorcover, doors, beer towers, canopy, etc. Use protectors and separators when transporting multiple units, so that contact between them is avoided.

Ensure the equipment stays secure during transport, avoiding sudden movements.

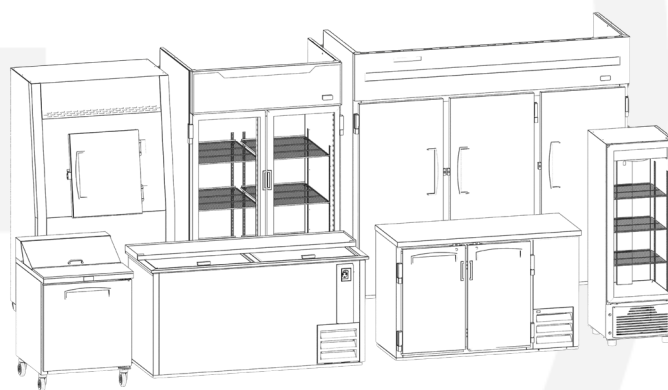
## CABINET LOCATION

Place the unit on a strong surface that supports the combined weight of the cabinet and the product inside it. The surface must be level, in order to avoid excess motor vibrations and drainage issues.

Your refrigerator must be placed in a dry, fresh, and well-ventilated space. Avoid direct exposure to sunlight and heat sources such as

heaters or ovens. Excessive heat affects the functioning of the refrigerator, and can cause condensation on its surface. During winter, keep your refrigerator someplace where the compressor oil does not freeze.

A minimum clearance of 8 inches must be maintained between the rear of the cabinet and the wall to ensure proper heat dissipation and adequate motor ventilation. Heat dissipation from the condenser unit area is extremely important, so there must be adequate ventilation for a proper cooling.



## REMOVING THE BOX AND SKID OR BASE (IF APPLICABLE)

Be sure to remove the box carefully to prevent damages to the exterior surface of the cabinet. The cabinet is fixed with screws to a wooden skid or base. To remove the wooden base, follow these steps:

**STEP 1.** Raise the cabinet and skid or base.

**STEP 2.** Using a  $\frac{3}{4}$ " wrench, remove the bolts that tie it to the base of the cabinet (one on each corner) and remove it.

**STEP 3.** Install casters. **See instructions for caster installation on the next page.**

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## CASTER INSTALLATION (IF APPLICABLE)

**STEP 1.** Raise the cabinet enough to install the casters.

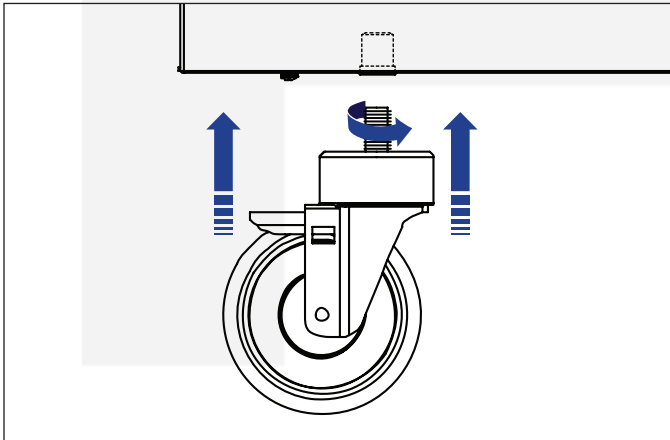
**STEP 2.** Screw in the threaded end of the casters in the holes provided on the outer bottom of the unit.

**STEP 3.** The casters with breaks must be installed on the front of the unit, at the right and left corners.

**STEP 4.** Gently lower the unit to floor level and place it in location.

**STEP 5.** After the unit is in place, apply the breaks to the front casters to avoid further movement of the refrigerator.

**STEP 6.** Do not lean the cabinet in any direction when mounting the casters or moving the unit from one place to another.



## GENERAL SAFETY INSTRUCTIONS: UNITS EQUIPPED WITH R-290 (PROPANE)

**STEP 1.** Handle the unit with care to avoid damages and possible refrigerant leaks.

**STEP 2.** Avoid prolonged exposure of the unit to direct sunlight.

**STEP 3.** Use original replacements in case a repair is needed.

**IMPORTANT:** Equipment that uses R-290 refrigerant (propane), which is a flammable hydrocarbon, require to be serviced by qualified technicians for repair or maintenance purposes.

## ELECTRICAL INSTALLATION

The compressor's service life, its electrical parts, and the proper functioning of your refrigerator depends almost entirely from a proper electrical installation. Strictly follow these instructions and remember that failing to do so you may void the warranty.

**STEP 1.** Electrical installation must be carried out in accordance to local electrical code. Check the "Serial Plate" inside the refrigerator for information about the working voltage of your unit.

**STEP 2.** Ensure that your equipment's power supply, according to the Serial Plate, matches the one installed at your premises.

**STEP 3.** Validate that the voltage does not fluctuate within 5% under or 10% over the specified voltage range.

**STEP 4.** Each refrigerator must be connected to an independent electrical circuit in order to avoid voltage fluctuations that can affect the unit. Ensure that no other electrical appliance is connected to the same circuit your refrigerator is connected to avoid overloads. Electrical circuit overload is extremely dangerous.

**Under no circumstance should you cut or remove the ground pin from the power cord. This can be very dangerous under certain circumstances.**



**WARNING:**  
**AVOID THE USE A POWER EXTENSION CORD.**

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## STARTUP

It's recommended that a competent refrigeration technician performs the equipment startup. It is also recommended to obtain a preventive maintenance contract to ensure reliability and service efficiency in case of future issues.

Below are the steps that the person installing the refrigerator should follow:

**STEP 1.** The included casters in the cabinet should be installed and adjusted to ensure the refrigerator is level in all directions.

This is especially important for the closing of the door(s), proper water drainage, and an efficient evaporator operation.

Also, make sure to place the casters with brakes at the front of the refrigerator. **See the instructions for Caster Installation.**

**STEP 2.** Verify that there are no refrigerant leaks. Occasionally leaks can occur during transport due to vibrations.

**STEP 3.** Inspect the sealing of the door(s).

**STEP 4.** Connect the refrigerator, after checking the "Serial Plate" for confirmation on the required voltage. **See the Electrical Installation recommendations.**

**STEP 5.** If the refrigerator includes a voltage regulator, please note that it will take approximately 3 minutes for startup.

**STEP 6.** If the refrigerator has an electronic controller, the screen should show the temperature after a few seconds.

**STEP 7.** Check for vibrations and extreme or abnormal noises.

**STEP 8.** Allow the compressor to cycle at least 3 times (approximately 2 hours) and reach an adequate temperature before loading with product.

**STEP 9.** There should be an inspection a week after the initial startup to ensure proper functioning.

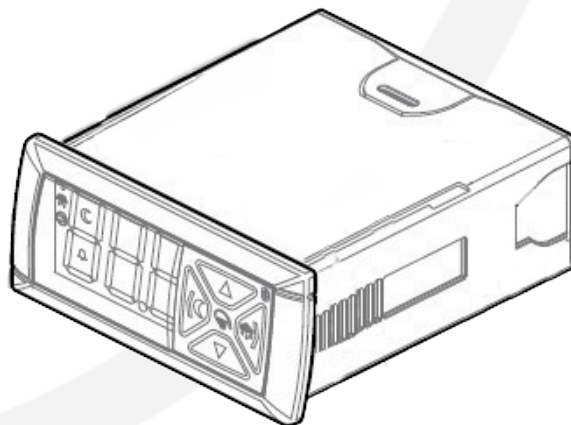
## DEFROST PROTOCOL (IF APPLICABLE)

The unit is equipped with an automatic defrost system. This turns off the refrigeration and activates a resistance (if applicable), so the built-up frost on the evaporator melts and does not create a thermic barrier that prevents proper cooling.

## TEMPERATURE CONTROL

The unit leaves the factory pre-set with an adequate temperature range for the required cooling range. **See the refrigerator's technical sheet for its operating range.**

- **Units equipped with a mechanical temperature control:** These can be adjusted to adapt to your needs. Turn the knob clockwise for more cooling, and counterclockwise for less. Adjust the knob on 10° increments at a time and allow the unit to work for a few hours before making another adjustment. Once the adjustment is done, there should not be a need to change it.
- **Units equipped with an electronic temperature control:** Depending on the controller model, this device may include features such as: multiple operation temperature recipes, voltage monitor, defrost protocol, and economic operation mode. For details on how to set and make use of these features, please refer to the labeling placed on the inside of the refrigerator's cabinet.



**NOTE:** Type of control can vary by model.

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## LOADING THE CABINET WITH PRODUCT

Each unit is designed to work under certain temperature and humidity requirements, based on environmental factors.

Once the refrigerator is working, it must operate for a sufficient period of time such that the internal temperature reaches adequate levels.

**The recommended amount of time is 3 to 4 hours.**

The evaporator fan draws in air from the product storage area, passes it through the evaporator for cooling, and returns it to the product storage area. Avoid placing product in places that obstruct airflow.

If loading the unit with product requires over 2 minutes, we recommend turning the refrigerator off to prevent frost buildup on the evaporator. Once the cabinet loading is finished, close the door(s) and verify the sealing.

## CLEANING AND PREVENTIVE MAINTENANCE

An adequate maintenance of your refrigerator is the most important element for its proper and efficient functioning. The following are some suggestions for your consideration:

- Disconnect the unit's power cord before starting a cleaning process and remove all product from inside the cabinet.
- Clean the condenser monthly, using a soft brush or preferably using compressed air. If the condenser has built-up grease and grime, use a heavy-duty cleaning solution (degreaser).
- If you find oil on the condenser unit compartment, call a qualified technician immediately.
- Keep the floor around the unit clean and tidy.
- Verify the door(s) and the sealing. All doors should close on their own and seal adequately around the perimeter.
- Some models include a drain pan in the condenser unit area. Empty and clean it if necessary. Verify regularly to avoid water overflow.

- Replace any part that does not work properly as soon as possible. Contact your distributor or service technician to order parts.

It is important to clean both the inside and outside of the refrigerator periodically. Remove all products and shelves from inside the cabinet. Clean both inside and outside with a soft soap or detergent. Wash with clean water and dry with absorbent cloth.

You must have special care for cleaning stainless steel: to keep its shine and prevent rust, apply light oil with a cloth, or wax the surface. This will create a protective layer.

## DRAINAGE SYSTEM

If your unit has a condensate water collector pan, it will be located on the condenser unit compartment.

The air from the condenser fan circulates partially over the drain pan, which helps with evaporation of condensate water.

Ensure the drain hose is placed inside the pan. An electric evaporator pan is available as an optional accessory. **For additional information, please contact your distributor.**

Some designs **DO NOT** consider this condenser drain pan. In these cases, you should make a connection to an external drain system.

Some of our Top Mount units include an automatic condensate pump. This receives the water generated during a defrost process and sends it to a pan placed on top of the compressor for evaporation.

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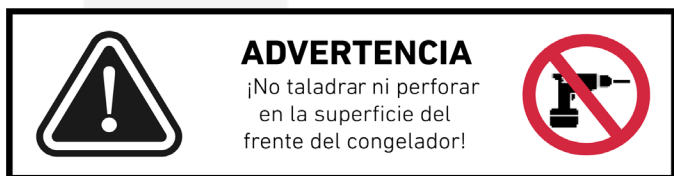
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## HOT GAS ANTI-CONDENSATING SYSTEM (IF APPLICABLE)

To prevent condensation from forming on the front of the unit around the door, our units have piping installed along the entire front frame of the cabinet, which is connected to the refrigeration system.

Through this piping or post condenser, hot refrigerant flows, which allows to maintain a temperature above the dew point on the front face of the unit, preventing condensation formation.

Units with this anti condensating system carry the following label:



**Translation:** WARNING, Do not drill nor pierce the surface of the front of the refrigerator!

## WARRANTY

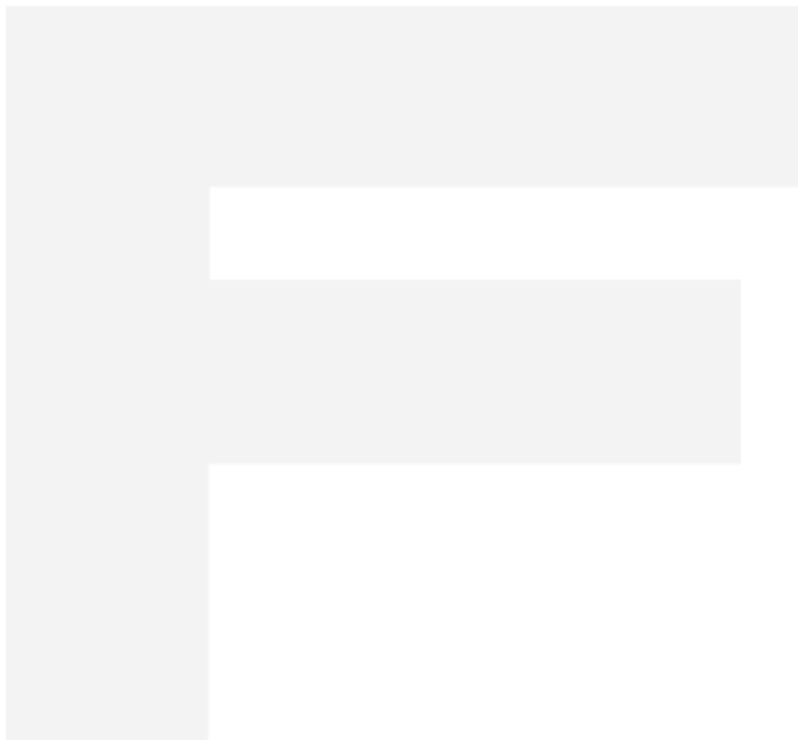
The manufacturer guarantees to the original purchaser that the unit is free of material and manufacturing defects under normal use, and its obligation is limited to replace within a span of a year, from the installation date of the unit. Any part or piece from said unit that turns out to be defective, as long as said defects are verified.

This warranty does not cover any equipment or part of one that has been damaged, tampered with, or mistreated. It also won't cover any damage or expenses resulting from flooding, storm, fire, or other damages or expenses resulting from force majeure.

This warranty voids all other warranties, explicit or implicit and all other obligations or responsibilities from the manufacturer, and it does not assume, nor does it authorize anyone to assume on its behalf, any obligation or liability in connection with the sale of such equipment or any part thereof.

Electrical parts, LED lights, filter/driers, and glass breakage are not included in this warranty.

Any direct or consequential damages, such as loss or damage and/or transportation costs and labor costs for repairs, are not covered by this warranty. **See details of other conditions that limit the warranty on the back of the commercial invoice.**



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