



Commercial Refrigerators And Freezers

Refrigerator models: 447AP23R, 447AP49R

Freezer models: 447AP23F, 447AP49F

10/2021

Please read the manual thoroughly prior to equipment set-up, operation, and maintenance.

Warning

DANGER – RISK OF FIRE OR EXPLOSION. FLAMMABLE REFRIGERANT USED. TO BE REPAIRED ONLY BY TRAINED SERVICE PERSONNEL. DO NOT PUNCTURE REFRIGERANT TUBING.

PELIGRO - RIESGO DE INCENDIO O EXPLOSION. REFRIGERANTE INFLAMABLE UTILIZADO. PARA SER REPARADO SOLAMENTE POR PERSONAL DE SERVICIO CALIFICADO. NO PINCHAR LA TUBERÍA REFRIGERANTE.

DANGER – RISQUE DE FEU OU D'EXPLOSION. LE FRIGORIGÈNE EST INFLAMMABLE. CONFIER LES RÉPARATIONS À UN TECHNICIEN SPÉCIALISÉ. NE PAS PERFORER LA TUBULURE CONTENANT LE FRIGORIGÈNE.

CAUTION – RISK OF FIRE OR EXPLOSION. FLAMMABLE REFRIGERANT USED. CONSULT REPAIR MANUAL/OWNER'S GUIDE BEFORE ATTEMPTING TO SERVICE THIS PRODUCT. ALL SAFETY PRECAUTIONS MUST BE FOLLOWED.

ATENCIÓN - RIESGO DE INCENDIO O EXPLOSIÓN. REFRIGERANTE INFLAMABLE UTILIZADO. CONSULTE EL MANUAL DE REPARACIÓN / GUÍA DEL PROPIETARIO ANTES DE INTENTAR DAR SERVICIO A ESTE PRODUCTO. DEBEN CUMPLIR CON TODAS LAS PRECAUCIONES DE SEGURIDAD.

ATTENTION – RISQUE DE FEU OU D'EXPLOSION. LE FRIGORIGÈNE EST INFLAMMABLE. CONSULTER LE MANUEL DU PROPRIÉTAIRE/GUIDE DE RÉPARATION AVANT DE TENTER UNE RÉPARATION. TOUTES LES MESURES DE SÉCURITÉ DOIVENT ÊTRE RESPECTÉES.

CAUTION – RISK OF FIRE OR EXPLOSION DUE TO PUNCTURE OF REFRIGERANT TUBING; FOLLOW HANDLING INSTRUCTIONS CAREFULLY. FLAMMABLE REFRIGERANT USED.

ATENCIÓN - RIESGO DE INCENDIO O EXPLOSIÓN DEBIDO A LA PERFORACION DE LA TUBERÍA REFRIGERANTE; SIGA LAS INSTRUCCIONES DE MANIPULACIÓN CON CUIDADO. REFRIGERANTE INFLAMABLE UTILIZADO.

ATTENTION – RISQUE DE FEU OU D'EXPLOSION SI LA TUBULURE CONTENANT LE FRIGORIGÈNE EST PERFORÉE; SUIVRE LES INSTRUCTIONS DE MANUTENTION AVEC SOIN. LE FRIGORIGÈNE EST INFLAMMABLE.

CAUTION – RISK OF FIRE OR EXPLOSION DUE TO FLAMMABLE REFRIGERANT USED. FOLLOW HANDLING INSTRUCTIONS CAREFULLY IN COMPLIANCE WITH LOCAL GOVERNMENT REGULATIONS.

ATENCIÓN – RIESGO DE INCENDIO O EXPLOSIÓN DEBIDO A REFRIGERANTE INFLAMABLE UTILIZADO. SIGA LAS INSTRUCCIONES DE MANIPULACIÓN CON CUIDADO CONFORME A LAS REGLAS DE LA MUNICIPALIDAD.

ATTENTION – RISQUE DE FEU OU D'EXPLOSION SI LE FRIGORIGÈNE EST INFLAMMABLE. SUIVRE LES INSTRUCTIONS DE MANUTENTION AVEC SOIN CONFORMÉMENT AUX RÈGLEMENTATION GOUVERNEMENTALE LOCAUX.

Installation

Please read this manual thoroughly prior to equipment set-up, operation, and maintenance.

Important!!! Please Read Before Installation

- If the shelf has a raised lip, the lip needs to be installed facing up towards the rear of the cabinet to promote proper air flow. Failure to install the shelves properly is considered user-error and is not covered by warranty.
- If the unit has recently been transported on its side, please let the unit stand upright for a minimum of 24 hours before plugging it in.
- Make sure the unit has reached the desired temperature before loading the unit with products.
- Make sure all accessories are installed (shelves, shelf clips, etc...) before plugging in the unit.
- Do not attempt to remove or repair any component of the unit. Consult an authorized service technician for servicing / repair.
- Do not hang on doors or stand inside the unit.
- Please read through this manual in its entirety.

Cabinet Location Guides

- Install the unit on a strong and leveled surface.
 - If the surface is uneven, the unit may be noisy.
 - The unit may malfunction if the surface is uneven.
- Install the unit in an indoor, well ventilated area.
 - For best performance, maintain 6" of clearance on both sides and the back of the unit at all times.
 - Outdoor use may cause decreased efficiency and damage to the unit.
 - Avoid direct sunlight.
- Avoid installation in a high humidity and / or dusty area.
 - High humidity can cause the unit to rust and may decrease efficiency.
 - Dust collected on the condenser coil may cause unit to malfunction.
 - Malfunction due to high ambient temperatures, humidity, or improperly maintained condenser coil will void the warranty.
- Select a location away from heat and moisture-generating equipment.
 - High ambient temperatures may cause the compressor to malfunction.
 - Malfunction due to high ambient temperatures and humidity will void the warranty.

Installation of Casters:



- Cut the four straps which attach the unit to the pallet.
- Adjust the unit on the pallet until the pre-drilled holes are exposed.
- Using wedges or team-lift, lift the unit high enough that there is enough clearance to affix the caster.

CAUTION! NEVER LAY UNIT ON ITS BACK! UNIT SHOULD ONLY BE PLUGGED IN WHEN IT HAS RESTED IN THE CORRECT UPRIGHT POSITION FOR AT LEAST 24 HOURS. Failure to meet this requirement will void warranty coverage if compressor damage ensues.

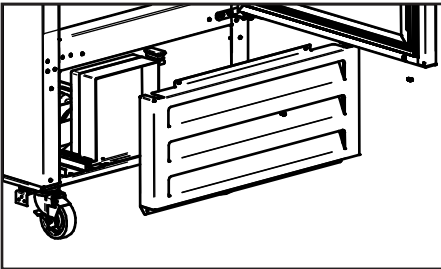
- For leveling if dealing with a sloped or uneven floor, shims are provided. Insert any necessary shims between the caster and the frame rail. Make sure the slot of the shim is in contact with the treaded stem of the caster. If using more than one shim, it is necessary to place them in opposite directions. If multiple shims are placed side by side in the same direction, they may dislodge.
- Turn the bearing race clockwise to tighten and secure the caster. Use provided tool to secure all casters properly.

Field Convertible Doors

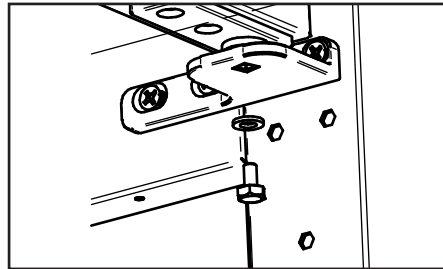
The Avantco AP-23R and AP-23F models ship with a right-hinged door design. These single door models have the ability to be switched to a left hinged door design. Please follow instructions below:

Tools Needed:

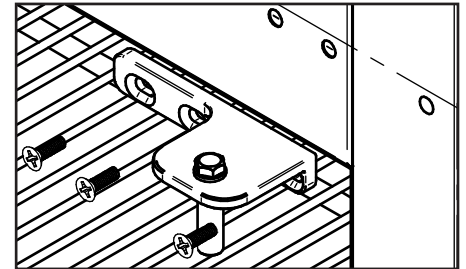
- Phillips Head Screwdriver
- 10mm Wrench



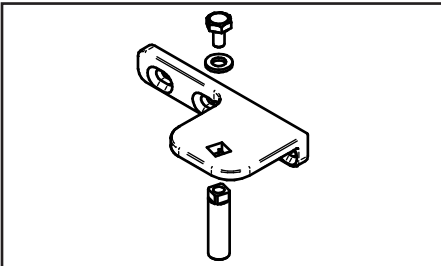
1. Use the phillips head screwdriver to remove the front panel screws, followed by the front panel.



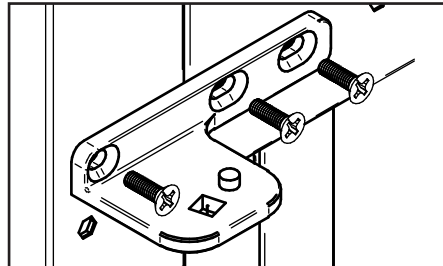
2. Use the wrench to remove the bottom hinge hex screw, then loosen the hinge screws and carefully remove the door.



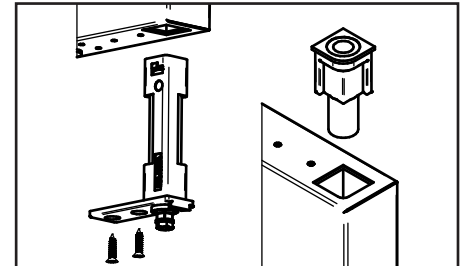
3. Use the screwdriver to remove the bottom and top hinges.



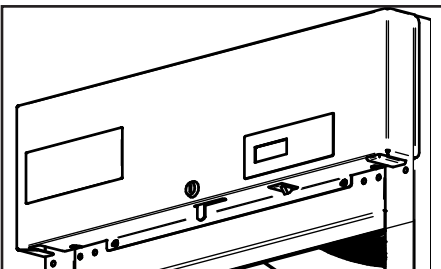
4. Use the wrench to remove the bolt of the top hinge, then install the bolt in to the bottom hinge.



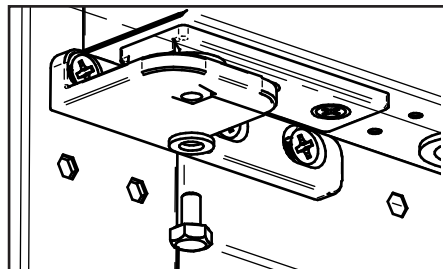
5. Install the bottom right hinge in the top left side of the equipment. Then, install the top right hinge in the bottom left side of the equipment.



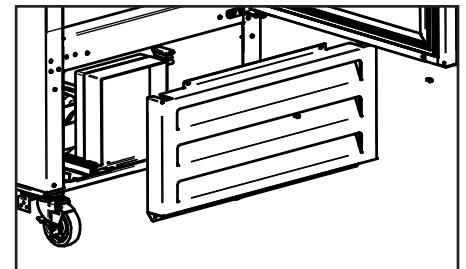
6. Remove the bottom cartridge and bolt housing from the door, install the cartridge at the top of the door and the bolt housing in the bottom.



7. Remove the top head screws, then move the hinge cap to the right side. Reinstall the top head screws.



8. Install the hinges on the left side, but do not tighten the screws. Then, install the door and cartridge screw. Tighten all screws.



9. Reinstall the front panel with the hinge cap on the right side.

Electrical

- Please ensure that the required voltage is being supplied at all times.
- The unit should be plugged into a grounded and properly-sized electrical outlet with appropriate over-current protection. Please refer to the electrical requirements on the unit's nameplate.
- The unit should have its own dedicated outlet.
- Do not use extension cords.
- Ensure the unit is not resting on or against the electrical cord.
- If the unit is not in use for a long period of time, please unplug the unit from the outlet.
- To avoid shock and fire hazards, do not plug in or unplug the unit with wet hands.
- After unplugging the unit, wait at least 10 minutes before plugging it back in. Failure to do so could cause damage to the compressor.

Adjusting the Temperature

Your new refrigerator or freezer is already factory-set to run at optimum temperatures for food safety and should require no adjustments.

Refrigerators are set to cycle between a minimum temperature of 32°F and a maximum temperature of 38°F.

Freezers are set to cycle between a minimum temperature of -8°F and a maximum temperature of 0°F.

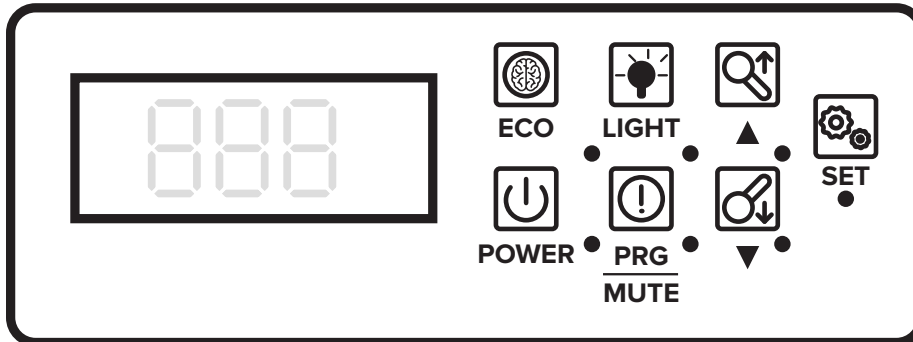
Adjusting the temperature changes the **minimum** temperature your unit will run at. Your unit will not run constantly at this setting. To change it, follow these instructions:

Digital Control Units

- Hold "SET" for 1 sec. The display will flash the current minimum temperature.
- Use the arrow buttons to adjust the minimum temperature you want it to run at.
- Press "SET" again to save your settings

Always remember to calculate the differential if you change the minimum temperature setting. The cabinet temperature will fluctuate up to +6°F for refrigerators and +8°F for freezers over your set minimum temperature as the compressor runs and shuts off. Setting the temperature too high will result in unsafe maximum temperatures and possible health code violations.

Control Panel



ECO Mode

Your new APlus Reach in Refrigerator or Freezer is equipped with Eco Mode which will cut down on energy costs and support longevity of your unit. When the unit automatically detects a time of no use, it will switch into a power saving mode: Eco Mode. After two hours of no door openings, your unit will automatically select a more efficient food-safe temperature to maintain for four hours. The compressor will work less during the downtime of your kitchen. You can also enable Eco Mode manually at any time you choose via the electronic controller. Eco Mode will stop when the door opens or when it is toggled off on the controller.

Instructions:

Automatic Mode:

- Your unit's setting is to automatically detect times to implement eco mode.
- When your unit detects no door openings for two consecutive hours, the temperature set point will be slightly higher, allowing the compressor to run less
- Eco Mode will run for four consecutive hours or until the door is opened for more than 6 seconds, when it will toggle off

To enable Eco Mode manually:

- Press the "ECO" Button on the controller.
- The screen will display "ECO"
- The temperature will be set to a slightly higher maintenance temperature, allowing the compressor to run less
- If you wish to end Eco Mode, press the "ECO" button again
- Alternatively, Eco Mode will automatically end when the unit's door is opened for more than 6 seconds or after four hours of being in Eco Mode

Running a Manual Defrost Cycle

This unit is pre-programmed to run automatic defrost cycles at preset intervals. However, if you would like to run a manual defrost cycle at any time, please follow the steps below:

Refrigerators: Press the defrost button (down arrow) for approximately 3 seconds. Repeat to stop the defrost cycle.

Freezers: Press the defrost button (down arrow) for approximately 5 seconds. Repeat to stop the defrost cycle.

Defrost System

Refrigerator coils are kept below the freezing point (32 degrees Fahrenheit). During compressor down-time, the evaporator fan continues to circulate air through the evaporator coil. This air circulation raises the coil temperature above the freezing point, melting any accumulated frost. Run-off water is drained into the evaporator pan and evaporated. Freezer coils are defrosted electrically. Automatic defrost timers automatically initiate at pre-set intervals and for a pre-determined duration.

Operation/Maintenance

NOTE: We strongly recommend that any servicing be performed by an authorized service technician.

Loading Product

- Do not block the air duct / fan at the top of the unit. Maintain a minimum of 4" of clearance between products and the fan at all times.
- Ensure all shelves are sitting level and properly secured before loading products.
- Do not store flammable and explosive gas or liquids inside the unit.

Cleaning the Condenser Coil

- For efficient operation, keep the condenser surface free of dust, dirt, and lint.
- We recommend cleaning the condenser coil at least once per month.
- Clean the condenser with a commercial condenser coil cleaner, available from any kitchen equipment retailer.

Cleaning the Fan Blades and Motor

- If necessary, clean the fan blades and motor with a soft cloth.
- If it is necessary to wash the fan blades, cover the fan motor to prevent moisture damage.

Cleaning the Interior of Unit

- When cleaning the cabinet interior, use a solvent of warm water and mild soap.
- Do not use steel wool, caustic soap, abrasive cleaners, or bleach that may damage the interior finish.
- Wash door gaskets on a regular basis, preferably weekly. Simply remove the door gasket from the frame of the door, soak it in warm water and soap for thirty (30) minutes, then dry with soft cloth and replace.
- Check door gaskets for proper seal after they are replaced.
- Periodically remove the shelves and shelf brackets from the unit, and clean them with a mild soap and warm water.

Trouble Shooting

Compressor is Not Running

Fuse blown or circuit breaker tripped.	Replace fuse or reset circuit breaker.
Power cord unplugged.	Plug in power cord
Thermostat set too high.	Set thermostat to lower temperature.
Cabinet in defrost cycle.	Wait for defrost cycle to finish.

Cabinet Temperature is too Warm

Thermostat is set too high.	Set thermostat to lower temperature.
Airflow is blocked.	Re-arrange products to allow for proper air flow. Make sure there is at least four inches of clearance from the fan.
Low refrigerant levels.	Contact a service technician to check refrigerant levels.
Door is slightly ajar.	Make sure door is completely closed.

Interior Light is Not Working

Poor switch connection.	Turn off light switch and turn it back on.
Bulb is not connected.	Make sure the bulb is correctly inserted in the socket.
Bulb has burned out.	Replace the bulb.

Condensation is Collecting on the Cabinet and/or Floor

Gasket is not sealing properly.	Clean, repair, or replace the gasket as necessary.
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