accucold®

PLUS 2/PRO/MED/GENERAL PURPOSE

Refrigerators and Freezers for General Purpose Storage

User Manual

Write model and serial numbers here:

_____

MODEL NUMBERS

PLUS 2 MODELS

- FF6L / FF7L / FF28LWH / FF511L / FF521BL / FFAR24L / SCR600L / FF590SSHH / FFAR10 / FFAR12W / FFAR121SS / PLUS2 Series

All-refrigerators with automatic defrost or frost-free operation

- ACF48W / VT65ML / FS603 / FS407L / FS30L / FS24L PLUS2 Series

All-freezers

- CM411L / CP351/ CT66L / S19LWH / CP133 PLUS2 Series

Refrigerator-Freezers

- SP6DS / SP6DSSTB / SP6DS2D PLUS2 Series

Drawer refrigerators

- PLUS2 all-refrigerators include digital thermostats, internal fans, and NIST calibrated thermometers.
- PLUS2 refrigerator-freezers include internal fans (in the refrigerator compartment) and NIST calibrated thermometers.
- PLUS2 all-freezers include NIST calibrated thermometers.

PRO MODELS

- FF6 / FF7 / FF28LWH / FF511L / FF521BL / FFAR24L / FF28LWH / SCR600L / FFAR10 / FFAR12W / FFAR121SS PRO Series

All-refrigerators with automatic defrost or frost-free operation

- VT65M / FS603 / FS407L / FS30L / FS24L PRO Series

All-freezers with manual defrost operation

- PRO all-refrigerators include digital thermostats, internal fans, and probe holes.
- PRO all-freezers include probe holes for user-provided monitoring equipment.

MED MODELS

- FF511L / FF521BL / FF7L / SCR610BL / SCR1156 MED Series

All-refrigerators with automatic defrost or frost-free operation

- VT65ML / FS407L / FS30L / FS24L MED Series

All-freezers with manual defrost operation

- MED all-refrigerators include digital thermostats, internal fans, and NIST calibrated temperature alarms.
- MED all-freezers and refrigerator-freezers include NIST calibrated temperature alarms.

GENERAL PURPOSE MODELS

NOTE: Units in this series are for basic storage applications and should not be used to hold vaccines, clinical biologicals, or other materials that require strict temperature uniformity.

- FFAR23LGP/FF28LWHGP/SCR314LGP/FF511LGP/FF511LBIADAGP/SPR489OSGP/FF7LWGP/FF7LWBIADAGP/SCR600GLGP/SCR600GLBIADAGP/FFAR10GP

All-refrigerators with automatic defrost or frost-free operation

- FS24LGP/FS407LGP/FS407LBIADAGP/VT65MLGP/VT65MLBIADAGP

All-freezers with manual defrost operation

- FS24LGP/FS407LGP/FS407LBIADAGP/VT65MLGP/VT65MLBIADAGP

Refrigerator-Freezers with cycle defrost operation

- AGP96RF/AGP34RF Series

Refrigerator-Freezer with a digital thermostat, alarm, and a fan. Some models feature a calibrated alarm and a lock.

- General Purpose refrigerators include manual (dial) thermostats, and internal fans
- General Purpose freezers include dial thermostats
- General Purpose refrigerator-freezers include digital thermostats and internal fans

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APPLIANCE SAFETY

- Your safety and the safety of others are very important to us.
- We have provided many important safety messages in this manual and on your appliance. Always read and obey all safety messages.
- You can be seriously injured or even killed if you don't follow instructions.
- Safety messages will tell you what the potential hazard is, how to reduce the chance of injury, and what can happen if the instructions are not followed.

⚠ WARNING ⚠

To reduce the risk of fire, electric shock, or injury when using your appliance, follow these basic precautions:

- Plug into a grounded 3-prong outlet.
- Do not remove ground prong, nor use a 3/2 adapter.
- Do not use an extension cord.
- Use care not to plug into outlets controlled by wall switches.
- Disconnect power before servicing.
- After servicing, replace all parts and panels before operating.
- Use nonflammable cleaners.
- Keep flammable materials and vapors, such as gasoline, away from appliances.
- Use two or more people to move and install appliance.

NOTE: Drawer refrigerators are provided with anti-tip brackets. Always install prior to use.

Proper disposal of an old appliance

Old appliances can represent a suffocation hazard to children.

- Remove doors from your old appliance.
- Leave shelves in place.
- If an old appliance contains refrigerants, it must be recycled by a licensed service or disposal company.

INSTALLATION OF YOUR APPLIANCE

NOTE: Allow the appliance to sit upright for 24 hours before turning on to allow the compressor lubricant to drain.

1. Remove packaging materials.
2. Remove tape and glue residue from surfaces before turning on the appliance. Rub a small amount of liquid dish soap over the adhesive with your fingers. Rinse with warm water and dry.
3. Do not use sharp instruments, rubbing alcohol, flammable fluids, or abrasive cleaners to remove tape or glue. These products can damage the surface of your appliance.

When Moving Your Appliance

Your appliance is heavy. When moving the appliance for cleaning or service, be sure to protect the floor. Always pull the appliance straight out when moving it. Do not wiggle or "walk" the appliance when trying to move it because floor damage can occur.

Clean Before Using

- After you remove all of the packaging materials, clean the inside of your appliance before using it. See cleaning instructions in *Appliance Care*.
- Some upright models have leveling legs. Level as necessary for best operation.
- If your appliance has casters, after moving into place, lock the brakes on those casters supplied with brakes. Always unlock before moving the appliance for cleaning.

Key Eject lock (some models)

To lock or unlock the appliance, you must hold the key in the lock while turning. The lock is spring-loaded, so the key cannot be left in the lock.

If the key is lost, contact your dealer or SUMMIT APPLIANCE for a replacement. Always give the model and serial number of your appliance when requesting a replacement key. Keys for most models can be ordered online at *www.summitappliance.com/support*

Location Requirements

Allow 4" (10 cm) clearance at the top and sides and a ¼" (0.64 cm) clearance between appliances. **IF YOUR MODEL HAS THE LETTERS "BI" IN THE SUFFIX, IT IS DESIGNED FOR BUILT-IN USE AND REQUIRES ONLY MINIMAL CLEARANCES EXCEPT AT THE BACK WHERE AT LEAST 2" OF CLEARANCE SHOULD BE ALLOWED. ALL FF590, SCR610BL, AND ACF48W MODELS ARE ALSO BUILT-IN CAPABLE.**

CAUTION: *Keep flammable materials and vapors, such as gasoline, away from the appliances. Failure to do so can result in fire, explosion, or death.*

Check the strength of the floor before installing your appliance. It should hold the weight of a fully loaded appliance. Allow at least 4" (10 cm) of airspace at the top and on both sides of the appliance and also 4" between the back of the appliance and the wall. If the appliance is going to be placed next to a wall, leave extra space on the hinge side so the door can open wider than its width.

NOTE: Do not install the appliance near an oven, radiator, or other heat source, nor in a location where the temperature will fall below 40°F (5°C). Do not place in direct sunlight.

Electrical Shock Hazzard:

- Plug into a grounded 3-prong outlet.
- Do not remove ground prong.
- Do not use an adapter.
- Do not use an extension cord.

CAUTION: *Failure to follow these instructions can result in fire, electrical shock or death.*

Recommended Grounding Method:

A 115 Volt (AC only) 60 Hz grounded electrical supply with a 15- or 20- amp fuse or circuit breaker is required. It is recommended that a separate circuit serving only your appliance be provided. Use outlets that cannot be turned off by a switch or pull chain. Do not use an extension cord.

Leveling your Appliance

Locate the two front leveling legs that may be taped among the packing materials. (In many models these legs are already mounted into the underside of the appliance.)

1. Screw these legs into the front holes on the bottom of the appliance. The back of the appliance rests on two fixed supports. (Built-in models have rear level legs for more precise leveling).
2. Adjust the front legs just enough to lift the cabinet up off the floor.

NOTE: If your model is equipped with front rollers, the front legs should be lowered enough to lift the rollers off the floor to ensure the appliance does not roll forward when the door is opened.

3. Place a leveling tool on top of the appliance, first side to side, then front to back. Turn leg counter-clockwise to raise a corner. Turn leg clockwise to lower a corner.
4. Repeat Step 3 until appliance is level.
5. After appliance is fully loaded, recheck with level as in Step 3.

If your appliance is equipped with casters, the two front casters have brakes to prevent rolling. Keep brakes locked, and unlock for moving only.

When Using your Appliance

- In order to ensure proper temperature, you need to permit proper airflow in the appliance. Do not block off any air vents. If the vents are blocked, airflow will be hindered, and temperature and moisture problems may occur. Always position contents to allow some airflow between shelves or baskets.
- Allow the appliance to cool at least 6 to 8 hours before adding contents. Allow 24 hours for temperature to stabilize.

NOTE: When the appliance is first started, the compressor will run constantly until the appliance is cooled. It may take 6 to 8 hours (or longer), depending on room temperature and the number of times the appliance door is opened. After the appliance has cooled, the compressor will turn on and off as needed to keep the appliance at the proper temperature.

- For optimum temperature performance, it is recommended that this unit be at least 30% full during use. If you are only using this unit to store small loads, we recommend adding some water bottles or freezer packs to ensure temperature stability.
- The outside of your appliance may feel warm. This is normal. The appliance's design and main function is to remove heat from packages and air space inside the appliance. The heat is transferred to the room air, making the outside of the appliance feel warm. *(In some models the condenser that gets warm is just inside the side walls, making these walls warm to the touch.)*

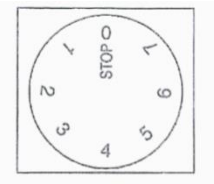
Energy-Saving Tips

- The more airflow provided around an appliance, the less energy it will use.
- If your appliance requires manual defrosting, keep ice build-up to less than 1/2".
- Keep doors open a minimum of time and shut securely.

TEMPERATURE SELECTION AND MONITORING

Your appliance may have a mechanical (dial) or digital thermostat. Listed below are instructions for both mechanical and digital thermostats.

Manual (dial) Thermostats (on some models)



Your appliance may be controlled with a thermostat knob located inside or in the rear of the unit, towards the right-hand corner. Turn the knob clockwise from the **STOP (0)** position toward the higher numbers for colder temperatures.

Setting the Temperature:

- Higher settings on the knob (higher numbers) mean lower temperatures (colder) in all compartments of the appliance. The temperature inside a refrigerator may even drop below 32°F. Use higher thermostat settings only when required or recommended. When the ambient temperature is normal, we recommend a medium setting.
- Changes of the ambient temperature affect temperature in the interior of the appliance, so keep this in mind when choosing the setting of the thermostat dial.
- At **STOP (0)** position, the appliance does not operate (the cooling system is switched off), but the power supply is not interrupted.
- The temperatures in the refrigerator and freezer compartments also depend on how often you open the door.
- In all small refrigerators and freezers without interior fans, temperatures are coldest near the bottom, and occasionally near the rear. Place contents accordingly.

NOTE: For optimum temperature performance, it is recommended that your unit be at least 30% full during use. If you are only using this unit to store small loads, we recommend adding some water bottles or freezer packs to ensure temperature stability.

Digital Thermostats (standard on all refrigerators, ACF48W models, and VT65MLADA models)

If you find it necessary to change the temperature setting for your digital thermostat, please refer to the following instructions.

NOTE: The minimum and maximum range of your thermostat is preset and locked so it cannot easily be accidentally moved outside of the recommended temperature ranges.

To See the Set Point

The default display for your digital thermostat is the internal cabinet temperature. To view the unit's set point, push and immediately release the *SET* key. The display will flash, showing the *set point* value. If no other actions are taken in 6 seconds, the display will revert to the internal air temperature.

To Change the Set Point

While the *set point* value is blinking, press the UP or DOWN arrow to change the set point to your desired temperature. Press the *SET* button again to exit the adjustment. The display will revert to the internal air temperature.

NOTE: The temperature displayed on the digital thermostat is the internal air temperature. Your alarm/thermometer (installed on the left in the control panel) provides a temperature readout based on the buffered probe in order to better simulate the temperature of what is actually stored inside the unit (as opposed to the air temperature itself). As a result, these readings may not always display the same temperature reading.

Digital Thermostat for the AGP96RF/AGP34RF

Note: details may vary from image

The temperature range of the refrigerated section of your appliance -2ºC to 8ºC (35ºF-46ºF). The freezer will operate below -10ºC (14 ºF). If you find it necessary to change the temperature setting for your digital thermostat, please refer to the following instructions.

NOTE: The temperature can only be adjusted for the refrigerated section. The freezer temperature will auto adjust based on the refrigerator setting but cannot be adjust independently.

To see the SET POINT

The default display for your digital thermostat is the internal cabinet temperature. To view the unit's set point, push and immediately release the SET key. The display will flash, showing the set point value. If no other actions are taken in 6 seconds, the display will revert to the internal air temperature.

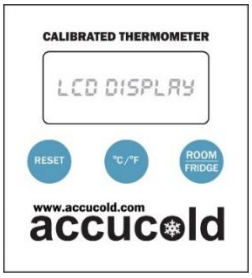
To change the SET POINT

- To prevent accidental adjustment, the thermostat is locked. To unlock it, press the down arrow and hold for six seconds and ON will be displayed.
- To change the set point, push and immediately release the SET key. The display will flash, while the current set point value is blinking, press the UP or DOWN arrow to change the set point to your desired temperature. Press the SET button again to exit the adjustment. The display will revert to the internal air temperature. To lock the thermostat, press the down arrow and hold for six second and OFF will be displayed.

Please note the temperature displayed on the digital thermostat is the internal air temperature of the lower refrigerator section. Once installed, the temperature measurement device (alarm/thermometer) packaged inside your unit provides a temperature readout based on the buffered probe in order to better simulate the temperature of what is actually stored inside the unit (as opposed to the air temperature itself). As a result, these readings may not always display the same temperature reading.

NOTE: The minimum and maximum range of your thermostat is preset and locked by us, so it cannot easily be accidentally moved outside of the recommended temperature ranges.

Thermometer (PLUS2 Models)



- This digital thermometer simultaneously displays maximum, minimum and current temperatures. The Max/Min feature monitors and stores the highest and lowest readings since the battery was inserted or since the RESET button was last pressed.
- The temperature sensor, or probe, is enclosed in a glycol-filled bottle that is inserted into the location to be monitored, such as inside a refrigerator or freezer. The thermometer itself can be attached to the door of the unit with the magnet on the back, or it can be placed on a convenient table or shelf.
- Power to the Thermometer is supplied with one AAA lithium battery. When it is inserted correctly, all segments of the LCD display are temporarily activated. When the battery needs to be replaced, a battery symbol will flash on the display.
- The temperature display can be switched between Celsius (°C) and Fahrenheit (°F) with a push of the **°C/°F** button. The display will alternate between refrigerator (probe) temperature and room temperature when you press the **ROOM/FRIDGE** button. Press **RESET** to clear the Max/Min temperature record.

Probe Hole/Access Port (PRO Series)

PRO series refrigerators and freezers include a 3/8” probe hole to allow users to install their own monitoring equipment. The probe hole is usually located in the upper part of the rear cabinet. If you are having difficulty locating the hole, refer to the product’s brochure on our website. If installing your own thermometer, alarm, or data logger, we recommend using a device with a buffered temperature probe and placing the probe towards the center of the unit. This will help provide a temperature reading closest to the contents being stored inside your refrigerator or freezer. If your unit includes a fixed shelf with a probe holder (see details on page 12), we recommend placing the probe inside the extra slot in this shelf.

Thermometer/Alarm (MED Models)

Every MED unit is equipped with a NIST-calibrated Thermometer/Alarm that simultaneously displays minimum, maximum, and current interior temperatures and provides a visual and audible signal when the temperature inside the unit falls outside the set temperature range.

NOTE ABOUT CALIBRATION: All MED units ship with a two-year **certificate of calibration** in the alarm/thermometer box that comes inside your unit. Keep this certificate stored safely for your records. Accucold offers re-calibration services through their ISO 17025:2017 certified calibration laboratory. It is recommended to have your probe re-calibrated every two years (or one year, depending on your state’s health department guidelines). For more information on how to have your device re-calibrated, contact us at **calibration@summitappliance.com.**

The temperature sensor, or probe, is enclosed in a glycol-filled bottle that is stored inside your unit in a special shelving compartment.

In some units, the center shelf is fixed in place and cannot be removed (see image). This is because the glycol-filled bottle that contains the temperature sensors for your alarm and thermometer is best stored in this location. The center of your refrigerator or freezer will provide the most accurate temperature readings. For proper temperature monitoring, keep the bottle in place and do not remove this shelf.

NOTE: A slight variation in temperature is often seen from one thermometer reading to another, even when the vaccine storage unit thermostat is set at a particular temperature. This is normal. If the thermometer reading does not fluctuate at all over several readings, temporarily remove the thermometer from the storage unit and place it outside the unit at room temperature. Check whether the temperature reading rises. If no change in the temperature reading occurs, the thermometer is faulty and needs to be replaced.

Function Controls

- **MODE/RESET Key:** Press ONCE to reset Max/Min temperature record. When the unit is sounding an alarm, press ONCE to turn off the beeping sound.
- **HIGH/LOW Key:** Press ONCE to display high alarm setting. Press TWICE to display low alarm setting. Press THREE TIMES to display current temperature reading.
- **ºF/ºC Key:** Press this button to alternate the temperature display scale between Fahrenheit (ºF) and Celsius (ºC).

Battery Installation

Remove battery compartment cover located on the rear of the unit and remove insulation strip from battery compartment. Following the polarity (+/-) diagram in the battery compartment, install the battery. Replace the battery cover. The unit will beep and all segments of the LCD will be activated.

Programming the Alarms

The thermometer displays the internal temperature of the unit being monitored, as well as the maximum and minimum temperatures reached. The maximum and minimum readings reflect the highest and lowest temperatures since the battery was inserted or since the MODE/RESET key was last pressed. If the temperature rises above or falls below the set temperature range, the alarm will sound. By default, the high alarm temperature setting is 8°C (46.4°F) and the low alarm temperature setting is 2°C (35.6°F). To reset these limits, follow these instructions:

NOTE: Set high and low alarm temperature limits above and below the refrigerator/ freezer operating temperature to prevent false alarms.

- **High Alarm Temperature Setting:** Press the HIGH/LOW key ONCE, then press MODE/RESET to enter the **High Alarm** temperature setting mode. Use the Up and Down arrows to adjust the temperature accordingly. Press MODE/RESET once again to confirm the setting.
- **Low Alarm Temperature Setting:** Press the HIGH/LOW key TWICE, then press MODE/RESET to enter the **Low Alarm** temperature setting mode. Use the Up and Down arrows to adjust the temperature accordingly. Press MODE/RESET ONCE to confirm the setting.

By default, the low and high alarms should be audible. To turn alarms on/off:

- **Audible High Alarm Setting:** To make sure the high alarm is audible, press HIGH/LOW key ONCE (to activate HI-SET on the screen). Then press the ALERT ON/OFF key ONCE to activate the HIGH-ALARM beeping sound. Press again to deactivate.
- **Audible Low Alarm Setting:** To make sure that the low temperature alarm is audible, press the HIGH/LOW key TWICE to activate LOW-SET on the screen. Then press the ALERT ON/OFF key ONCE to activate the LO-ALARM beeping sound. Press again to deactivate.

NOTE: For an activated high alarm and low alarm buzzer, the display should indicate HI-ALARM and LO-ALARM (see illustration on previous page).

AGP96RF and AGP34RF Series

The AGP96RF and AGP34RF series ships with a non-calibrated alarm/thermometer. For models with suffix “LCAL,” the device is calibrated in our ISO/IEC 17025:2017 laboratory and will include a 2-year certificate. Both alarms can be attached to the front door. The temperature probe is incased in a glycol bottle and should be placed inside the refrigerator section, ideally towards the center of the unit. The door of the refrigerator or freezer can be closed over the probe cord.

KEYPAD LOCK

A keypad lock is optional on most models. Use the instructions below to use your keypad lock.

Factory-set Default Password

The factory-set default password is 0123. If the default password is lost, press the key (located inside the battery box) for 30 seconds, then wait for the warning sound which signifies the factory-set default password has been restored.

Setting the Password:

While door is open, press the key (located inside the battery box) until it jingles, enter the 0123 password, then # within 10 seconds to confirm. Enter your password (1-16 digits), then press # again to confirm. A total of 10 passwords can be set.

NOTE: Each password starts with a number from 0 to 9 in order. The first password starting with 0 is the default password. For example, use 1xxx, then 2xxx etc. for 10 users.

Changing the Password:

While the door is open, press the key (located inside the battery box) until it jingles, enter the old password and press # within 10 seconds to confirm. Enter the new password, then press # to confirm. The first digit cannot be changed.

To Open the Door:

While the door is closed, press the START/END key, enter the password, then press START/END again to confirm.

To Lock the Door Manually:

Press #.

Function setting of automatic lock

Setting of the auto-lock time: Press the key (inside the battery box), enter a number (any number between 10 and 99), then press # to confirm. The auto-lock time can be set between 10 and 99 seconds after opening the door. If the time is set less than 10 seconds, the door will not lock automatically, only manually.

Deleting the door-opening passwords

Press the START/END key, enter default password followed by 0000, then press # and all the door-opening passwords will be deleted except for the default password.

NOTE: To access the battery box you need to remove only the two small screws on the top and bottom of that cover. Do not remove the 4 screws holding the keypad and cover to the appliance door.

COMBINATION LOCK

LLF3 Combination Lock for the AGP96RF and AGP34RF Series

Manufacturer's Combination

The manufacturer has set the combination code at 0-0-0-0.

Resetting the Combination

1. Make sure the digit wheels are set at the correct code so that the housing turns freely. The cam should be engaged so that the doors of the appliance cannot open.
2. Use a screwdriver or other tool to push down and hold the reset button, located on the underside of the lock, until you have entered your new code.
3. Turn the four-digit wheels to your new combination code, then release the reset button.
4. Make sure the housing is able to turn freely at the new setting. Code setting is complete.

To Lock

While the lock is in the unlocked position (i.e., the housing can be turned by hand), randomly set the digit wheels to lock.

To Unlock

Turn the digit wheels to the correct code to unlock.

Use Key to Unlock

You can use the key to unlock if you forget the combination.

1. Insert key into the barrel.
2. Turn the key 90 degrees to unlock. If the key is used to unlock, the cam will also turn 90 degrees when the key is rotated. However, the digit wheels will not rotate.

OPERATION OF SPECIFIC MODELS

FF6L, FF7L, FF28LWH, FF511L, FF521BL, FF590SSHH, FFAR24L, FFAR10, FFAR12W, FFAR121SS, SCR600L PLUS2, PRO, & MED Series; SP6DS2D, SP6DS, SP6DSSTB PLUS2 Series only; SCR610BL, SCR1156 MED Series only

These models are all-refrigerators (no freezer compartment) with automatic defrost. All have cold plates on the rear wall, and the coldest spots in the refrigerator will be in the rear and toward the bottom. All have interior fans to promote even cooling. In the rear bottom above the step, there is a drain line to allow defrost water to exit the refrigerator. Keep this drain line clear, or icing inside the refrigerator will occur. FF7, FF511L, FFAR10, and SCR series models have lights that are not door-activated, and are controlled either by a rocker switch on the top right or a light switch inside. The light inside these units will stay on until switched off manually. While LED lighting will not generate heat, it is not recommended to leave the light on for long periods of time.

ACF48WPLUS2 Series

These frost-free all-freezers can be built-in or free-standing. They do not require defrosting and have a digital thermostat and a lock. At the top of the unit is a cooling system that uses a fan to provide cold air. For best operation, do not block the air flow with contents.

FS24L, FS30L, FS603, FS407L, VT65ML PLUS2, PRO, & MED Series

These are manual defrost all-freezers. No internal fans are present, and ice will build up along the cooling coils. Periodically defrost the ice (recommended when the ice level reaches a thickness of 1/4 to 1/2 inch). *NEVER USE A METAL INSTRUMENT* as you can damage the cooling coils, which will void your warranty and often cannot be repaired. To defrost, disconnect from the power supply, empty the contents, provide a tray in the bottom to collect water, and use a hairdryer or other source of warm air to melt the ice (or leave the door open and the power off for 24 to 48 hours).

CP351 & CT66L PLUS2 Series

These models are cycle defrost refrigerator-freezers. The freezers are designed to operate at 0°F (-18°C), suitable for medical or laboratory uses. These models have dual evaporators to maintain separate temperatures in the freezer and refrigerator. Defrost the freezer carefully, as directed above for manual defrost. The refrigerator section operates in the normal range (35 to 45°F, or 2 to 7°C) and defrosts automatically.

CM411L, S19LWH, CP133 PLUS2 Series

These models are manual defrost refrigerator-freezers. The freezers in these models are designed to operate at 25°F (-4°C) to keep ice frozen, and not for medication or products needing colder temperatures. Defrost carefully, following directions above. The refrigerator section will operate in the normal range (35 to 45°F, or 2 to 7°C) and is suitable for most refrigerated products.

General Purpose Series

- These models are cycle defrost refrigerator-freezers. The freezers are designed to operate at -4°F (-20°C), which is ideal for the long-term storage of select sensitive materials. The refrigerators are designed to operate between 33°F - 50°F (1-10°C) and defrost automatically.
- The AGP96RF & AGP34RF Series are cycle defrost refrigerator-freezers. The freezers are designed to operate below -10°C (14°F). The refrigerators are designed to operate between 2-8°C (35°F-46°F) and defrost automatically.

NOTE: FF590SSHH, ACF48W, SCR610BL, drawer units, and models with BI in the model number are designed for built-in installation and need very little clearance on the sides and above the units. All other models require at least 4 inches of airflow on the sides and above the units. All models, including built-in units, operate best when 2 inches is provided between the rear wall and the back of the unit.

APPLIANCE CARE

Defrosting

CAUTION: *Never use a metal object to remove ice from the rear wall. If needed, use a plastic ice scraper.*

Refrigerator models listed in this manual defrost automatically. However, freezer models require manual defrosting. Before defrosting the unit, remove the contents of the freezer, then set the thermostat to OFF (the compressor will stop working). Leave the door open until ice and frost are completely melted. To speed up defrosting, you can place a container of warm water (about 125°F) into the cabinet. Soak up the melt water with clean toweling or a sponge and be sure the interior is dry before turning the thermostat back to its normal setting.

NOTE: It is not advisable to heat the interior of the freezer directly with hot water or a hair dryer while defrosting since this can deform the cabinet interior.

Cleaning the Appliance

Clean your appliance about once a month. Follow the procedure below for cleaning:

1. Disconnect from power.
2. Remove any parts that can be taken out of the cabinet, such as drawers.
3. Using a clean sponge or soft cloth, hand wash, rinse and dry removable parts and interior surfaces thoroughly. Use a mild detergent in warm water. DO NOT use abrasive or harsh cleansers such as window sprays, scouring cleansers, flammable fluids, cleaning waxes, concentrated detergents, bleaches or cleansers containing petroleum products. DO NOT use harsh cleaning tools such as paper towels or scouring pads, as these can scratch or damage the surfaces of the refrigerator.
4. For stainless steel and painted metal exterior surfaces, use a clean sponge or soft cloth and a mild detergent in warm water. DO NOT use abrasive or harsh cleaners, or cleaners containing chlorine, as these can scratch or damage the material. Using a soft cloth, dry thoroughly.
5. To help with removing odors, you can use a mixture of warm water and baking soda (2 tbs to 1 qt of water) to wash the interior walls.
6. After cleaning, replace all of the parts that were removed from the appliance.
7. The condenser coils, located on the back or behind the base grille, should also be cleaned regularly. This may be as often as every other month. Cleaning the condenser coils can help reduce how much energy the appliance uses. When the condenser coils are dusty or dirty, use a vacuum cleaner with an extension attachment.
8. After cleaning the appliance, plug in or reconnect power.

NOTE: For CSS Models (completely stainless steel), only use cleaners especially made for stainless steel.

Changing the Light Bulb (some models only)

NOTE: Not all appliance bulbs will fit your appliance. Be sure to replace the bulb with one of the same size, shape, base size and watt

1. Unplug appliance or disconnect power.
2. Remove the light shield. Most models do not require tools.
3. Replace the light bulb with an appliance bulb of the same wattage. Replacement LED bulbs are available from our parts department.
4. Replace the light shield.
5. Plug in appliance or reconnect power.

Loss of Power

In the event of power loss, unplug the appliance. Once power is restored, allow 30 minutes for the refrigeration system to equalize. During this time, keep the door closed as much as possible.

NOTE: A full appliance stays cold longer than a partially filled one.

Moving the Appliance

1. Remove stored items and tape shelves, drawers and trays in place.
2. Unplug the appliance.
3. Clean it thoroughly.
4. Tape the appliance shut and tape the electrical cord to the cabinet.

When you get the appliance to its new location, refer to the *Installation Instructions* and *Temperature Selection* sections for information on installation and setting the controls.

Maintenance of the Refrigerator/Freezer/Refrigerator-Freezer

- Report breakdowns immediately and arrange for alternative monitored storage for vaccines while the appliance is being repaired.
- Regularly check the door seals to ensure a good seal is maintained. Replace the seals if they are damaged or cold air is leaking from the appliance.
- Defrost the appliance regularly, if required, to prevent build-up of ice which will result in unstable temperatures. Regular defrosting also aids in efficient functioning of your appliance.
- If there are exposed coils on the back of the appliance, keep them clean and dust-free to improve operating efficiency.

Checking the Door Seal

To check that the vaccine storage unit door is sealing properly:

1. Place a thin paper strip against the cabinet front.
2. Close the door.
3. Pull the paper strip. If it moves easily or falls away by itself, the door and the rubber-like seal need to be adjusted.
4. Check all the way around the door. Pay particular attention to the corners.
5. Based on this assessment, if a problem with the door seal or hinges is suspected, contact a trained repair technician.

TROUBLESHOOTING

Try these solutions first to avoid the cost of an unnecessary service call.

The appliance is not operating.

- Is the power supply cord unplugged? Plug into a grounded 3-prong outlet.
- Has a fuse blown or a circuit breaker been tripped? Replace the fuse or reset the circuit.
- Is the thermostat incorrectly set? See *How to Adjust the Temperature* on page 10.

The motor is constantly running, or running too much.

- Is it hotter than usual where the appliance is located? At normal temperatures, the motor will typically run between 40% and 80% of the time. The motor will run even longer when the unit is in an unusually warm environment.
- Has a large number of items been added to the appliance? The more that is added, the longer it will take for the unit to cool down. During this process, the motor will run longer.
- Is the door frequently opened? Warm air entering the appliance causes the motor to run longer. Keep the door closed as much as possible.
- Is thermostat set correctly? See *How to Adjust the Temperature* on page 10.
- Is the door completely closed? Push the door firmly shut.
- Are the condenser coils dirty? This prevents proper air transfer, and causes the motor to work harder. Clean the condenser coils. See *Cleaning the Appliance* on page 7, and refer to #7.
- Does the unit have proper clearance? Models with “BI” in their name require 2” of rear clearance and minimal clearance on the sides and top. All other units require at least 4” of clearance on all sides for proper operation.

The temperature in the cabinet is too warm.

- Have you just added a large number of items to the appliance? This will warm the interior of the unit until it is able to cool down to the correct temperature.
- Is thermostat set correctly? See *How to Adjust the Temperature* on page 10.

There is excessive moisture inside the appliance.

- Is the door opened frequently? If so, humidity from the room will enter the appliance and cause moisture to build up. This will happen even more if the air in the room is very humid.

The door is hard to open.

- Is the door gasket dirty or sticky? Clean the gasket and the surfaces that it touches. Rub a thin coat of paraffin wax on the gasket after cleaning.

LIMITED WARRANTY

ONE YEAR LIMITED WARRANTY FOR APPLIANCE

Within the 48 contiguous United States, for one year from the date of purchase, when this appliance is operated and maintained according to instructions attached to or furnished with the product, warrantor will pay for factory-specified parts and repair labor to correct defects in materials or workmanship. Service must be provided by a designated service company. Outside the 48 states, all parts are warranted for one year from manufacturing defects. Plastic parts, shelves and cabinets are warranted to be manufactured to commercially acceptable standards, and are not covered from damage during handling or breakage.

5-YEAR COMPRESSOR WARRANTY

1. The compressor is covered for 5 years.
2. Replacement does not include labor.

ITEMS WARRANTOR WILL NOT PAY FOR:

1. Service calls to correct the installation of your appliance, to instruct you how to use your appliance, to replace or repair fuses or to correct wiring or plumbing.
2. Service calls to repair or replace appliance light bulbs or broken glass shelves. Consumable parts (such as filters) are excluded from warranty coverage.
3. Damage resulting from accident, alteration, misuse, abuse, fire, flood, acts of God, improper installation, installation not in accordance with electrical or plumbing codes, or use of products not approved by warrantor.
4. Replacement parts or repair labor costs for units operated outside the United States.
5. Repairs to parts or systems resulting from unauthorized modifications made to the appliance.
6. The removal and reinstallation of your appliance if it is installed in an inaccessible location or is not installed in accordance with published installation instructions.

DISCLAIMER OF IMPLIED WARRANTIES – LIMITATION OF REMEDIES

CUSTOMER'S SOLE AND EXCLUSIVE REMEDY UNDER THIS LIMITED WARRANTY SHALL BE PRODUCT REPAIR AS PROVIDED HEREIN. IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR. WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR LIMITATIONS ON THE DURATION OF IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS, SO THESE EXCLUSIONS OR LIMITATIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

WARNING: This product can expose you to chemicals including Nickel (Metallic) which is known to the State of California to cause cancer.

For more information go to www.P65Warnings.ca.gov

Note: Nickel is a component in all stainless steel and some other metallic compositions.