



Scientific Freezer

Model FS30L

INSTRUCTION MANUAL

**BEFORE USE, PLEASE READ AND FOLLOW ALL SAFETY RULES
AND OPERATING INSTRUCTIONS.**

Write Serial Number (on back of unit) here:

IMPORTANT SAFETY INSTRUCTIONS



Before the appliance is used, it must be properly positioned and installed as described in this manual, so read the manual carefully. To reduce the risk of fire, electrical shock or injury when using the appliance, follow basic precautions, including the following:

DANGER

- Plug into a grounded 3-prong outlet, do not remove grounding prong, do not use an adapter, and do not use an extension cord.
- It is recommended that a separate circuit, serving only your appliance be provided. Use receptacles that cannot be turned off by a switch or pull chain.
- Never clean freezer parts with flammable fluids. These fumes can create a fire hazard or explosion.
- Do not store or use gasoline or other flammable vapors and liquids inside or in the vicinity of this or any other appliance. The fumes can create a fire hazard or explosion.
- Do not use inflammable sprays in the vicinity of the appliance.
- Before proceeding with cleaning and maintenance operations, make sure the power line of the unit is disconnected.
- Do not connect or disconnect the electric plug when your hands are wet.
- Unplug the appliance or disconnect power before cleaning or servicing. Failure to do so can result in electrical shock or death.
- Do not attempt to repair or replace any part of your appliance unless it is specifically recommended in this manual. All other servicing should be referred to a qualified technician.
- *Risk of child entrapment!*
Child entrapment and suffocation are not problems of the past. Junked or abandoned appliances are still dangerous, even if they will "just sit in the garage a few days."
 - √ **Before you throw away your old refrigerator or freezer:** Take off the doors. Leave the shelves in place so that children may not easily climb inside.
 - √ Never allow children to operate, play with, or crawl inside the appliance.

WARNING

- Use two or more people to move and install the appliance. Failure to do so can result in back or other injury.
- To ensure proper ventilation for your appliance, the front of the unit must be completely unobstructed. Choose a well-ventilated area with temperatures above 60°F (16°C) and below 90°F (32°C). This unit must be installed in an area protected from the elements, such as wind, rain, water spray or drips.

- The freezer should not be located next to ovens, grills or other sources of high heat.
- The freezer must be installed with all electrical, water and drain connections in accordance with state and local codes. A standard electrical supply (115 V AC only, 60 Hz), properly grounded in accordance with the National Electrical Code and local codes and ordinances is required.
- Do not kink or pinch the power supply cord of the freezer.
- The fuse (or circuit breaker) size should be 15 amperes.
- It is important for the appliance to be leveled in order to work properly. You may need to make several adjustments to level it.
- Check for leaks after connection.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- IMPORTANT: Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- IMPORTANT: Do not damage the refrigerant circuit.
- IMPORTANT: Do not use electrical appliances inside the storage compartment of the appliance, unless they are of the type recommended by the manufacturer.
- Do not use solvent-based cleaning agents or abrasives on the interior. These cleaners may damage or discolor the interior.
- Do not use this apparatus for other than its intended purpose.

SAVE THESE INSTRUCTIONS

INSTALLATION INSTRUCTIONS

➤ **Before Using Your Freezer**

- Remove the exterior and interior packing.
- Before connecting the freezer to the power source, let it stand upright for approximately 2 hours. This will reduce the possibility of a malfunction in the cooling system from handling during transportation.
- Clean the interior surface with lukewarm water using a soft cloth.

➤ **Installing Your Freezer**

- This appliance is designed to be free standing only, and should not be recessed or built-in.
- Place your freezer on a floor that is strong enough to support it when it is fully loaded. To level your appliance, adjust the leveling leg at the bottom of the freezer.
- Allow about 5" (12 cm) of space between the back and sides of the appliance and 4" (10 cm) at the top. This will allow the proper air circulation to cool the compressor.
- Locate the appliance away from direct sunlight and sources of heat (stove, heater, radiator, etc.). Direct sunlight may affect the acrylic coating and heat sources may increase electrical consumption. Extremely cold ambient temperatures may also cause the freezer not to perform properly.
- Avoid locating the appliance in moist areas.
- Plug the appliance into an exclusive, properly installed and grounded wall outlet. Do not under any circumstances cut or remove the third (ground) prong from the power cord. Any questions concerning power and/or grounding should be directed toward a certified electrician or an authorized service center.
- After plugging the appliance into a wall outlet, allow the unit to cool down for 2-3 hours before placing items inside the cabinet.

➤ **Electrical Connection**

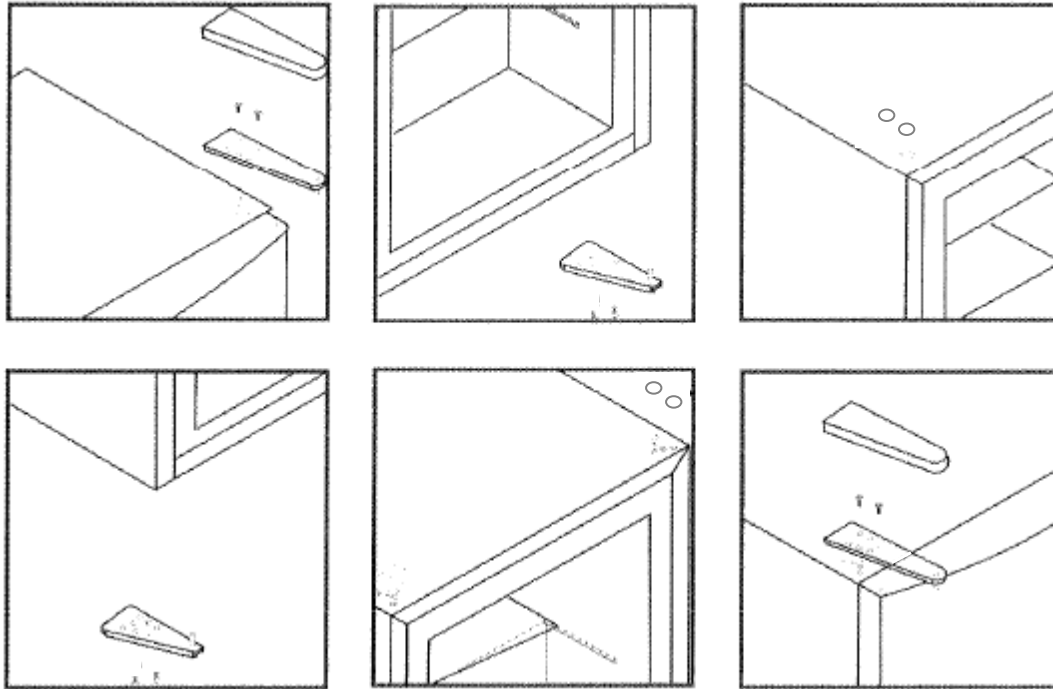
⚡Warning⚡

Improper use of the grounded plug can result in the risk of electrical shock. If the power cord is damaged, have it replaced by an authorized service center.

- This appliance should be properly grounded for your safety. The power cord is equipped with a three-pin plug which mates with standard three prong wall outlets to minimize the possibility of electrical shock.
- Do not under any circumstances cut or remove the third ground prong from the power cord supplied.
- This freezer requires a standard 115Volts AC ~ 60Hz electrical outlet with three-prong grounded receptacle.
- To prevent accidental injury, the cord should be secured behind the appliance and not left exposed or dangling.
- Never unplug the freezer by pulling the power cord. Always grip the plug firmly and pull straight out from the receptacle.
- Do not use an extension cord with this appliance. If the power cord is too short, have a qualified electrician or service technician install an outlet near the appliance.

➤ **Reversing the Door Swing of Your Appliance**

This freezer has the capability of the door opening from either the left or right side. The unit is delivered to you with the door opening from the left side. Should you desire to reverse the opening direction, you can refer to the diagram below.



OPERATING YOUR FREEZER

➤ **Setting the Temperature Control**

- To control the internal temperature, adjust the control dial according to the ambient temperature or intended use of the freezer.
- The first time you turn the unit on, set the temperature control to "Max."
- The range of the temperature control is from position "OFF" to "Max". After 24 to 48 hours, adjust the temperature control to the setting that best suits your needs. The setting of "Normal" should be appropriate for most circumstances.

NOTE:

If the freezer is unplugged, has lost power, or is turned off, you must wait 3 to 5 minutes before restarting the unit. If you attempt to restart before this time delay, the freezer will not start.

CARE AND MAINTENANCE

➤ Defrosting Your Freezer

- This appliance requires manual defrosting. Please use the ice scraper to defrost when ice has built up inside the cabinet.

➤ Cleaning Your Freezer

- Turn the temperature control to "OFF", unplug the freezer and remove the contents, including shelves and trays.
- Wash the inside surfaces with a warm water and baking soda solution. The solution should consist of about 2 tablespoons of baking soda to a quart of water.
- Wash the shelves and trays with a mild detergent solution.
- The outside of the freezer should be cleaned with mild detergent and warm water.
- Wring excess water out of the sponge or cloth before cleaning the area of the controls, or any electrical parts.
- Wash the outside cabinet with warm water and mild liquid detergent. Rinse well and wipe dry with a clean soft cloth.

➤ Vacation Time

- **Short vacations:** Leave the freezer operating during vacations of less than three weeks.
- **Long vacations:** If the freezer will not be used for several months, remove contents and unplug the power cord. Clean and dry the interior thoroughly. To prevent odor and mold growth, leave the door open slightly, blocking it open if necessary.

➤ Moving Your Freezer

- Remove all stored items.
- Securely tape down all loose items, such as shelves, inside your freezer.
- Turn the leveling screw up to the base to avoid damage.
- Tape the door shut.
- Be sure the freezer stays secure in the upright position during transportation. Also protect the outside of the freezer with a blanket or similar item.

➤ Energy Saving Tips

- The freezer should be located in the coolest area of the room, away from heat-producing appliances, and out of the direct sunlight.
- Let warm items cool to room temperature before placing in the freezer. Overloading the freezer forces the compressor to run longer.
- Be sure to package stored items properly and wipe containers dry before placing them in the freezer. This cuts down on frost build-up inside the appliance.
- Freezer shelves should not be lined with aluminum foil, wax paper, or paper toweling. Liners interfere with cold air circulation, making the freezer less efficient.
- Organize and label items to reduce door openings and extended searches. Remove as many items as needed at one time, and close the door as soon as possible.

PROBLEMS WITH YOUR FREEZER

You can solve many common appliance problems easily, saving you the cost of a possible service call. Try the suggestions below to see if you can solve the problem before calling the servicer.

TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE
Freezer does not operate.	Not plugged in. Circuit breaker has tripped or a fuse has blown. The freezer temperature control is set at "OFF".
Turns on and off frequently.	The room temperature is warmer than normal. A large number of items have been added to the freezer. The door is opened too often. The door is not closed completely. The temperature control is not set correctly. The door gasket does not seal properly. The freezer does not have the correct clearances.
Vibrations	Check to be sure the appliance is level.
The freezer seems to make too much noise.	A rattling noise may come from the flow of the refrigerant, which is normal. As each cycle ends, you may hear gurgling sounds caused by the flow of refrigerant in your freezer. Contraction and expansion of the inside walls may cause popping and crackling noises. The freezer is not level.
The door will not close properly.	The freezer is not level. The door was reversed and not properly installed. The gasket is dirty. Shelves, bins, or baskets are out of position.

LIMITED WARRANTY

ONE YEAR LIMITED WARRANTY

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 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. Expenses for travel and transportation for product service in remote locations.
7. 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 may contain chemicals known to the state of California to cause cancer or birth defects or other reproductive harm. For more information, visit: www.summitappliance.com/prop65

Chemicals known by the manufacturer to be present in this product in concentrations higher than threshold limits: NONE.

The logo for Summit Appliance, featuring the word "SUMMIT" in a bold, blocky, sans-serif font. The letters are black and have a slightly distressed or textured appearance.