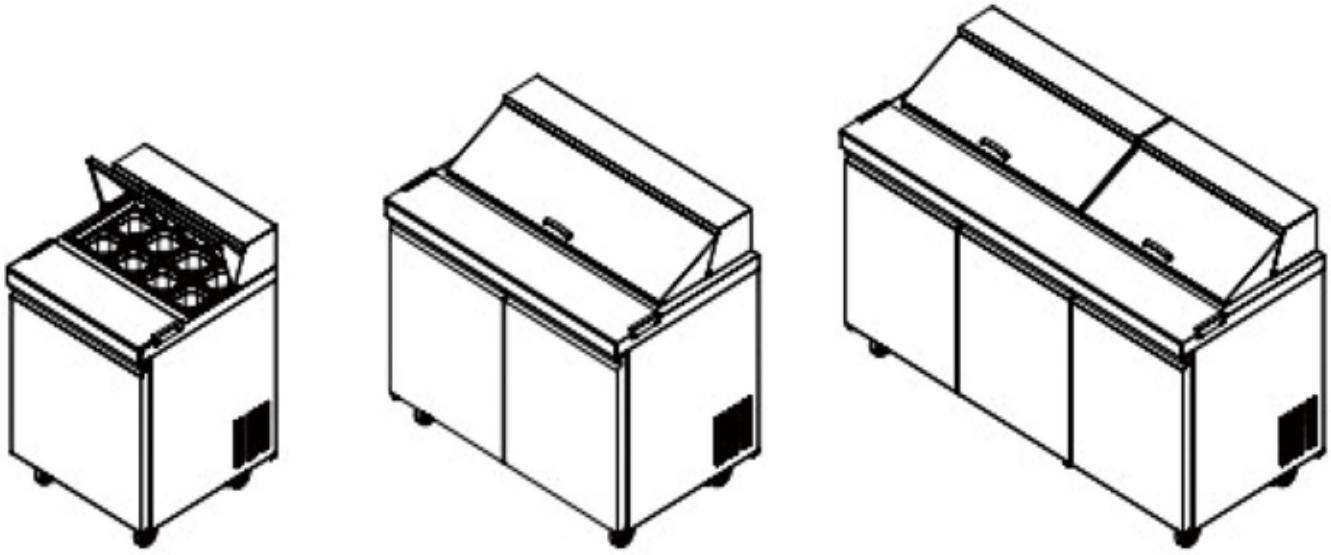
Commercial Refrigerator Food Prep Tables

Sandwich/Salad/Mega Top Instruction Manual



S27/S36/S48/S60/S72

S27M/S36M/S48M/S60M/S72M(MEGA TOP)

DL22701093

Technical Data

MODEL	EXTERNAL DIMENSION inch	V/HZ/PH	STORAGE CAPACITY Cu-ft	PAN 1/6 SIZE	TEMPERATURE	NEMA PLUG
S27	27 3/4*30 1/2*44 2/3	115/60/1	7.2	8	33-41℉	5-15P
S27M	27 3/4*34 5/7*44 2/3		7.2	12		
S36	36 3/7*30 1/2*44 2/3		9.3	10		
S36M	36 3/7*34 5/7*44 2/3		9.3	15		
S48	48 3/7*30 1/2*44 2/3		12.8	12		
S48M	48 3/7*34 5/7*44 2/3		12.8	18		
S60	60 1/4*30 1/2*44 2/3		16.3	16		
S60M	60 1/4*34 5/7*44 2/3		16.3	24		
S72	71 3/4*30 1/2*44 2/3		19.6	18		
S72M	71 3/4*34 5/7*44 2/3		19.6	30		

Note: Technical data are subject to change without prior notice. Subject to product's actual technical data.

Notice

.This equipment 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 instructions concerning the use of this equipment and the hazards involved by a person responsible for their safety.

.The special instructions for those persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge are not included in this manual and are not required to be included.

.Children must not use or interact with the appliance.

Children should not perform cleaning or user maintenance on the appliance without direct adult supervision.

This manual uses the following safety symbols. These safety symbols with the words of **DANGER, WARNING** or **CAUTION** alert users of the potential hazards that could cause injury or even death.

⚠**DANGER**	Indicates hazards of death or serious injury, if the instructions are not followed.
⚠**WARNING**	Indicates dangers of death or serious injury, if the instructions are not followed.
⚠**CAUTION**	Indicates risks of personal injury or material damage, if the instructions are not followed.

⚠WARNING

This unit uses R-290 (propane), or R-600a (isobutane) as a refrigerant. These hydrocarbon refrigerants are highly environmentally compatible but also are flammable and combustible. Please read this manual thoroughly before installing and operating the unit. Please take cautious measures to avoid risk of fire or explosion.

PLEASE REFER TO THE LABEL INSIDE THE CABINET TO CHECK REFRIGERATION TYPE AND VOLUME.

	DANGER - Risk of fire or explosion. Flammable refrigerant used. Do not use mechanical devices to defrost refrigerator. Do not puncture refrigerant tubing.
	DANGER - Risk of fire or explosion. Flammable refrigerant used. To be repaired only by trained service personnel. Do not puncture refrigerant tubing.
	CAUTION - Risk of fire or explosion. Dispose of properly in accordance with federal or local regulations. Flammable refrigerant used.
	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
	CAUTION - Risk of fire or explosion due to puncture of refrigerant tubing; follow handling instructions carefully. Flammable refrigerant used.
	WARNING - Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction. - Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer. - Do not damage the refrigerant circuit. - Do not use electrical appliances inside the food storage compartments of the appliance unless they are of a type recommended by the manufacturer.

⚠WARNING

.Handle the unit with care in order to avoid any serious damage to the refrigeration system.

.The refrigerant tubing, condenser, and evaporator coils are prone to damage while handling, moving, installing, and cleaning the unit, which may lead to fire or even explosion.

.Refrigerant squirting out of the pipes could ignite or cause an eye injury. If a leak is detected, avoid any naked flames or potential sources of ignition and air the room in which the appliance is located.

.To avoid the creation of a flammable gas-air mixture from a leaking refrigerating circuit, the size of the room in which the appliance is placed depends on the amount of refrigerant used. The room must be 35.31ft^3 (1m^3) in size for every 0.28oz (8g) of R-600a refrigerant inside the appliance. The amount of refrigerant in your particular appliance is shown on the label inside the cabinet.

This appliance contains a small amount of propane (R-290) or isobutane (R-600a) refrigerant, a natural gas with high environmental compatibility, but it is also combustible. When transporting and installing the appliance, ensure that no part of the refrigerating circuit is damaged.

.Never start up an appliance showing any signs of damage. When in doubt, contact a qualified service professional.

.In case of any hazardous activities such as fire or explosion, move the unit away from any source of ignition to a well ventilated area.

.Further service and repair must be done by a qualified technician who is familiar with the safety standards, and also has thorough understanding and knowledge of the flammable refrigerants.

.Any individuals handling these units must be equipped with proper personal protection and equipment and follow applicable safety measures and precautions to avoid risk of fire or explosion.

SAFETY PRECAUTIONS

To avoid any risk of fire, explosion, electric shock, personal injury, material damage or incorrect use of the appliance, be sure to observe the following safety precautions (After reading these owner's manual instructions, please keep the manual booklet in a safe place for reference. Remember to hand it over to any subsequent owners).

⚠WARNING

.The unit must be installed and located in accordance with the manufacturer's installation instructions.

.Installation work must be performed in accordance with the National Electric Code by qualified and authorized personnel only.

.Repairs and replacement work must be performed by a qualified and authorized service professional using only genuine replacement parts (Component parts shall be replaced with like components).

.Do not use an extension cord or an adapter plug. Because of the potential safety hazards under certain conditions, we strongly do not recommed any use of an extension cord or an adapter plug.

.Do not, under any circumstance, cut or remove the ground prong from the power cord. For personal safety, this appliance must be properly grounded.

.Do not store volatile and flammable substances in the refrigerator. The storage of benzene, thinner, alcohol, ether, LP gas, or other explosive substances may cause an explosion.

.Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this appliance as well as any other appliances.

.The appliance is not intended for use by children without supervision.

.Do not allow children to climb, stand, or hang on the refrigerator doors or shelves in the refrigerators. They could damage the refrigerator and seriously injure themselves.

.To prevent suffocation and entrapment hazards to children, remove the doors and seals from the refrigerator before disposing of it or discontinuing its use.

INSTALLATION & USAGE

⚠ WARNING

.Do not install the unit in a damp place where it could be splashed with water. Incorrect insulation of the electrical parts may cause fire or electric shock.

.Do not plug several appliances into the same sockets. This could cause fire due to overheating.

.Keep the power plug away from the rear of the cabinet. A damaged power plug may cause fire due to overheating.

.Do not spray water directly to the interior or exterior of the appliance. There is a risk of fire or electric shock.

.Do not place any containers filled with water on top of the appliance. If the water spills onto any electrical parts, it may lead to fire or electric shock.

.Do not attempt to repair, disassemble or alter the appliance. It may cause fire or abnormal operations which may lead to injury.

.Unplug the refrigerator before making repairs, replacing a light bulb, or cleaning.

.Plug into a grounded 3-prong outlet. Do not remove the ground prong.

⚠ CAUTION

.Do not store too much food in the appliance. When you open the door, an item may fall out and cause personal injury or material damage.

.Do not put bottles or any kind of glass in the freezer. The container may break and cause personal injury.

.Do not disconnect the power cord by pulling on it. This may disconnect a wire and cause a short circuit.

INSTALLATION & USAGE

⚠ CAUTION

There is a risk of death from suffocation if a child puts the packing materials on his or her head.

Do not store any articles on top of the appliance. Articles may fall while opening or closing the door, and could cause personal injury or material damage.

Do not store pharmaceutical products, scientific materials or other temperature-sensitive products in the refrigerator. Products that require strict temperature controls must not be stored in the refrigerator.

Do not let children hang on the door.

Do not touch any cold surfaces or food containers in the freezer with damp or wet hands. Skin may stick to these extremely cold surfaces and may cause frostbite.

Remove any foreign matter from the power plug pins. Otherwise, there is a risk of fire.

Do not insert your hand into the bottom area of appliance. Any sharp edges may cause personal injury.

After unplugging the appliance, wait at least five minutes before plugging it back in. Abnormal operation of the freezer may cause material damage.

If the appliance is not used for a long period of time, unplug it from the power supply. Any deterioration in the insulation may cause fire.

Do not let children touch or play with the control panel on the front of the appliance.

Do not allow children to play with this appliance.
Do not stand or lean on the base panel, pull-out parts, or doors.
Repairs and maintenance of the appliance should only be performed by a qualified technician. Incorrect repairs done by an unqualified person may be a potential source of danger that could have critical consequences for the user of the appliance.
Never put ice cubes or ice pops straight from the freezer into your mouth. The low temperature may cause cold burns.

PROPER DISPOSAL OF OLD APPLIANCE

For environmental purposes, refrigeration appliances must be properly disposed. This applies to your old appliance, and at the end of its service life, for your new appliance as well.

⚠ WARNING

.Before disposing of old appliances, make them inoperable. Remove plug from mains, severe the power cable, and remove or destroy any snap or latch closures.
.This eliminates the danger of any children locking themselves into the appliance (danger of suffocation) or placing themselves into other life-threatening situations.

The appliance may not be disposed of with domestic waste or bulky refuse.

The refrigerant circuit, especially the heat exchanger at the back of the appliance, may not be damaged.

Information concerning collection schedules or locations can be obtained from the local disposal authorities.

CAUTION

The refrigeration used in refrigerator/freezer and the gases in the insulation material require special disposal procedures. Ensure that none of the pipes on the back of the appliance are damaged prior to disposal.

BEFORE YOU CALL FOR SERVICE

Before contacting our Service Department, review the detailed troubleshooting tips in the Owner's manual.

1.Try to remedy the problem. Please read the "Troubleshooting Guide" section.

2.Restart the appliance to check whether the fault repeats. If the malfunction persists, switch off the appliance and try again after an hour.

3.If the malfunction still persists, then contact our Customer Service, specifying:

- The nature of the problem
- The appliance model number and serial number
- Your full address, telephone number and area code

SERIAL NUMBER

The serial number is on the rating label located on the left interior wall. Please retain the unit's serial number for service purpose.

NOTICE TO CUSTOMER

Loss or spoilage of products in your refrigerator/freezer is not covered by warranty. In addition to following recommended installation procedures, you must run the refrigerator/freezer 24 hours prior to usage.

INSTALLATION

1. **LOCATION** - Allow adequate space and install the refrigerator on a firm and level floor. If the appliance is not level, there may be unusual noises and poor cooling performance.
2. **GOOD AIR CIRCULULATION** - Be sure to avoid any partition and object which may stop the air flow and that air space is allowed to flow to the rear and/or sides of the unit between the refrigerator and the back wall. Insufficient space causes vibration noise, inefficient refrigeration, damage to the refrigeration system, and the waste of electricity (We recommends that the rear of the unit should be no less than 5 inches from the wall).
3. **PLACE ON STRONG FLOOR** - Be sure that the floor on which the unit is to be installed is strong enough to support the total weight of the cabinet and any other contents, before starting the installation.
4. **DO NOT PLACE NEAR HEAT** - Be sure to avoid hot corners and other locations such as near stoves. High ambient temperature will result in much lower cooling efficiency.
5. **INDOOR USAGE ONLY** - Be sure to install this unit indoors only, to prevent getting wet from the rain. Do not install the refrigerator in locations where the temperature is over 100°F (43°C) or below 50°F (10°C).
6. **STABILIZING** - Make sure the unit is installed in a stable condition with the front wheels locked while in use.
7. **LEVELING** - Be sure that the unit levels from the front to the back and side to side.
8. **UNIT SHOULD BE ON DEDICATED OUTLET** - Plug the refrigerator into a wall socket exclusively for this appliance. Do not run on extension cord.
9. **THE ELECTRICAL PLUG MUST BE ACCESSIBLE WITHOUT MOVING THE UNIT.**
10. **WHEN POSITIONING FOOD FOR STORAGE, A MAXIMUM OF ONE SHELF MAY BE LOADED LESS THAN 110lb (50kg), BUT DO NOT ALLOW LOADS TO OVER HANG FROM THE FRONT AND REAR EDGES OF SHELVES.**

CLEANING

Before cleaning, unplug the unit and disconnect the power.
Wipe and clean the inside and outside of appliance with a damp cloth.

1.CLEANING THE INTERIOR AND EXTERIOR

The interior and exterior of the unit can be cleaned using warm water and soap.
Do not use an abrasive cleaner because it will scratch the surface.

2.CLEANING THE CONDENSER COIL

To maintain proper refrigeration performance, the Condenser coil must be free of dust, dirt, and grease. This will require periodic cleaning. Condenser coil should be cleaned at least every three months (90days) or as needed.

To clean the condenser, unplug the power cord. Condenser can be cleaned with vacuum, brush, or CO2 (high pressure air).

3.CLEAN THE DRAIN PAN

Periodically, empty the drain pan which is located under the unit.
When reinstalling the Drain Pan, make sure the drain hose is placed back into the pan.

4.CHECK AFTER CLEANING

Check the unit again for safety.
Plug unit back in and it is on.
Check that the unit is operating properly.

CAUTION

1.POWER CORD

-Be sure the power cord is connected to the proper voltage.
-A protected circuit of the correct voltage and amperage must run for connection of the line cord.

-Disconnected the power cord, whenever performing maintenance functions or cleaning the refrigerated cabinet.

-Compressor warranties are void if compressor burns out due to low voltage.

2.RESTARTING

-If disconnected, wait 5 minutes before restarting.

3.POSITIONING GOODS

-Do not obstruct the air inlet which is located at the back inside of the unit.

THERMOSTAT DESCRIPTIONS

Please refer to the additional pages"Digital controller installing and operating instructions".

TROUBLESHOOTING

SYMPTOMS	CAUSES	SOLUTIONS
Cooler is freezing food.	• Thermostat set too cold.	• Turn the thermostat setting "SP"to a higher temperature position
The unit does not refrigerate at all.	• There is a power connection failure problem.	• Check the power cord and plug in correctly.
The unit does not refrigerate well.	• The unit is in sunlight or near a heating device. • The unit contains hot food or too much food. • The unit door is opened too frequently or left open too long. • The temp. dial is not on the correct position. • The condenser is clogged.	• Check the installation location. • Check the condition of stored food. • Check the position of the temp control dial.
There is a loud noise.	• The floor is too weak or the leveling feet are set incorrectly. • The backside of the unit is too close to the wall.	• Check the installation.
There are dewdrops on the unit exterior.	• High-moisture air can produce dewdrops during rainy seasons.	• Wipe with a dry cloth.
There are dewdrops on the unit interior.	• The door is opened too frequently or left open too long. • Damp food is stored.	• Keep the door closed to remove dewdrops.
The door does not close tightly.	• The door is bent. • The unit is not levelde off. • The door gasket has come off.	• Level the unit again. • Reposition the gasket.

The following points are not malfunctions:

- A water-flowing sound can be heard when the compressor stops. This is the sound of REFRIGERANT flowing.
- The compressor does not run during the defrost cycle.

Note: Formation of condensation on and around the edge of the door and the front side of the cabinet is normal. Gurgling noises inside the refrigerating circuit are normal.

STAINLESS STEEL EQUIPMENT CARE & CLEANING

CAUTION : Do not use any steel wool, abrasive or chlorine based products to clean stainless steel surfaces.

There are three basic things which can break down your stainless steel's passivity layer and allow corrosion to occur.

（1）Scratches from wire brushes, scrapers, and steel pads are just a few examples of items that can be abrasive to stainless steel's surface.

（2）Deposits left on your stainless steel can leave spots. You may have hard or soft water depend- ing on what part of the country you live in. Hard water can leave spots. Hard water that is heated can leave deposits if left to sit too long. These deposits can cause the passive layer to break down and rust your stainless steel. All deposits left from food prep or service should be removed as soon as possible.

（3）Chlorides are present in table salt, food, and water. Household and industrial cleaners are the worst type of chlorides to use.

8 step that can help prevent rust on stainless steel:

1. **Using the correct cleaning tools**

   Use non-abrasive tools when cleaning your stainless steel products. The stainless steel's passive layer will not be harmed by soft cloths and plastic scouring pads. Step 2 tells you how to find the polishing marks.

2. **Cleaning along the polish lines**

   Polishing lines or "grain" are visible on some stainless steels. Always scrub parallel to visible lines on some stainless steels. Use a plastic scouring pad or soft cloth when you cannot see the grain.

3. **Use alkaline, alkaline chlorinated or non-chloride containing cleaners**

   While many traditional cleaners are loaded with chlorides, the industry is providing an ever increasing choice of non-chloride cleaners. If you are not sure of your cleaner's chloride content, contact your cleaner supplier. If they tell you that your present cleaner contains chlorides, ask if they have an alternative. Avoid cleaners containing quaternary salts as they can attack
   stainless steel, causing pitting and rusting.

4. **Water Treatment**

   To reduce deposits, soften the hard water when possible. Installation of certain filters can remove corrosive and distasteful elements. Salts in a properly maintained water softener can be to your advantage. Contact a treatment specialist if you are not sure of the proper water treatment.

5. **Maintaining the cleanliness of your food equipment**

   Use cleaners at recommended strength (alkaline, alkaline chlorinated or

non-chloride). Avoid build-up of hard stains by cleaning frequently. When boiling water with your stainless steel equipment, the single most likely cause of damage is chlorides in the water. Heating nay cleaners containing chlorides will have the same damaging effects.

6. **Rinse**

   When using chlorinated cleaners you must rinse and wipe dry immediately. It is better to wipe standing cleaning agents and water as soon as possible. Allow the stainless steel equipment to air dry. Oxygen helps maintain the passivity of the film on stainless steel.

7. **Hydrochloric acid (muriatic acid) should never be used on stainless steel.**
8. **Regularly restore/passivate stainless steel.**

   Recommended cleaners for certain situation/environments of stainless steel:

   A) Soap, ammonia and detergent medallion applied with a cloth or sponge can be used for routine cleaning.

   B) Arcal 20, Lac-O-Nu Ecoshine provides barrier film for fingerprints and smears.

   C) Cameo, Talc, Zud First Impression is applied by rubbing in the direction of the polished lines for stubborn stains and discoloring.

   D) Easy-off and De-Grease it oven aid are excellent for removals on all finishes for grease-fatty acids, blood and burnt-on foods.

   E) Any good commercial detergent can be applied with a sponge or cloth to remove grease and oil.

   F) Benefit, Super Sheen, Sheila Shine are good for restoration/passivation.