

Model ST-8CF



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Owner's Manual

NOTE: Read this manual carefully before you operate the machine. Properly keep this manual for any future reference

NOTICES & ROUTINE MAINTENANCE

- 1) The unit cannot be re-started until after a half an hour on the leveled floor that it is moved to. The unit should be left to run for two (2) full hours before food is put into it for storage.
- **2) DO NOT** switch on the unit within five (5) minutes after a sudden power failure.
- **3)** The food should be stored with some spare space so as to allow for smooth air circulation.
- **4)** The temperature of the food in the unit should not exceed the ambient temperature of the unit.
- **5)** Acids, alkaline, corrosive substances, volatile, or inflammable materials cannot be stored in case of damage to the cabinet of the unit.
- **6)** How to clean your SunStar unit:
 - a) Turn the control dial on the control panel located in the front of the unit (see figure four on page four) to the stop position and then unplug the power cord from the wall.
 - **b)** Wipe down the interior walls with a soft cloth dipped in a neutral detergent.
 - **c)** Exhaust the condensed water or wipe it off with a dry clean cloth.
 - **d)** The outside of the unit can be cleaned with thin soda water or alcohol and then wiped clean with a damp cloth.
- **7)** After the unit has been in use half a year, wipe off the dust that has accumulated on the condenser, fan, and compressor.

SUNSTAR TECH SUPPORT: 260-214-0949

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Dear Customer: Please follow the user manual to achieve the best service performance and the longest service of life for your machine.

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PACKING LIST

The following should be included in your SunStar Unit Packaging. If something is missing, please contact the number at the back of this manual.

Item Number	Description	Quantity
1	Freezer	1
2	User Manual	1
3	Warranty Registration Card	1
4	Suspending Basket	1

EXTERNAL APPEARANCE



Fault	Cause	Solution
Faulty indicators and / or	1. Loose contact	1. Make it tight
non operation of the	2. Loose cables	2. Make it tight
compressor		
The compressor is running	The supply voltage is 85%	1. Switch the unit off
abnormally or with unusual	lower than the rated value.	immediately until the recovery
noise		of the voltage supply is
		normal. A voltage regulator with an input power five (5)
The successive automatic	The supply voltage is 110%	times larger is required if the
shut-off of the compressor	higher than the rated value.	voltage fluctuation exceeds
several minutes after start	g	that which is specified.
up		2. Check the input voltage on
		the module and power supply
		battery if it is out of operating
		voltage.
		3. Check the cable length
		between the battery and
		module. Please refer to "Cable
		Requirements" on page 5 of the User Manual.
The storage temperature	1. Frequent opening of the	Try to open the doors less
rises while the compressor	doors.	frequently.
is running properly	2. The cabinet is overloaded	Arrange the food orderly with
in the same of the	with tightly packed food.	enough space for smooth air
	3. Too much frost	circulation.
	accumulation.	Take out frozen food and
	4. Door leakage.	remove the frost.
	5. Gasket failure.	Adjust the door sealing.
Abnormal noise in general	1. The unit is not leveled	1. Adjust the unit to a stable
is being produced	2. Loose fastening parts	and leveled floor.
	3. Unwanted contact	2. Tighten the loose parts.
	between pipes	3. Keep the parts away from
		each other.

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GENERAL FAULTS & TROUBLE-SHOOTING

1) In case of an abnormal operation, please refer to the table shown on page 7 (**Form 2**) for inspection and possible solutions. If the faults cannot be solved, please contact the service department of our company or our local institutions with special engagement.

The following are **NOT** results of faulty equipment:

- 1) The condenser in the corresponding internal wall will make the external condenser feel hot.
- 2) The intermitting noise heard in the cabinet during operation of the unit some time after shut-off is caused by the circulating flow of coolant in the condensing pipes.
- 3) The surface temperature of the compressor may rise to a range between 70°C/150°F and 90°C/194°F.
- **4)** The condensed water beads on the external side of the unit or door during the rainy seasons will not affect the operation of the unit. The water beads may be wiped off with a dry cloth.

MAJOR TECHNICAL PARAMETERS

FORM 1

Product Model	Power	Available Capacity
ST-8CF	DC 12V/24V	225 L 8 cu. ft.

Working	Input	Power Consumption
Temperature	Power (W)	(kwh/24hrs)
-15°C ~ -22°C 5°F ~ -7.6°F	60	0.4

Refrigerant Type	Net Weight	Exterior Dimensions
R134A	70 kg 153 lb	103 cm x 78 cm x 93 cm 41 in x 28.6 in x 37 in

TRANSPORT AND STORAGE

- 1) When loading and unloading the unit, the angle of the inclination should not be any more than 45 degrees while the unit is being moved. Keep the unit steady when in transit, especially when handling units with glass doors.
- 2) The unit should be placed in a well ventilated, dry, and cool place in order to avoid direct exposure to sunlight.
- 3) Remove the packaging material from inside and outside the unit before use. Arrange for the unit to be no less than six (6) inches from the wall at the back and side.
- 4) Place the unit on a sturdy and leveled floor.

START UP & TEMPERATURE REGULATIONS

1) START UP

- Turn the control dial from stop position to the desired number 1 (See Figure 4 on Page 4). The compressor will then start up and the machine will begin to refrigerate/freeze.
- **b)** Protection signal of the controller is a red indicating light. It will flash a number of times if fault occurs. Count the number of flashes and compare with the chart below:

Flash Number	Fault Occurring	
1	Battery Protection Cut Out	
2	Fan Over-Current Cut Out	
3	Motor Start Error	
4 Minimum Motor Speed Erro		
5 Thermal Cut Out of Module		

(The module will run too hot if the unit system has been too heavily loaded or if the ambient temperature is higher than 55°C /131°F.)

c) The unit will not run if there is a fault connecting the anode and the cathode of the voltage compressor.

2) TEMPERATURE REGULATIONS

The temperature will gradually drop when the control dial of the thermostat is turned clockwise (to the right) and will gradually gain when the knob is turned counter-clockwise (to the left). When the arrow on the control dial is pointed to the fast freeze, the compressor will keep working. However, it is not recommended to use the unit for too long at such an extreme temperature

FIGURE 4



CABLE REQUIREMENTS

To ensure the correct start and operating conditions for the unit, the following cable dimensions must be observed:

Wire Sizing Chart (Gauge)	Max . length between battery and compressor module (ft.)	
	12V/DC	24V/DC
# 10	15 ft	30
# 8	20 ft	45
# 6	30 ft	60
# 4	45 ft	100

SAFETY PRECAUTIONS

- 1) Use an independent 12V/24V DC outlet with a capacity of no less than 12A. A DC 12V/24V chest unit is not required to be grounded.
- 2) Disconnect the plug from the outlet if the unit is to be left unused for a long period of time. Check if the connection is okay before it is put into use again.
- 3) Do not immediately switch the freezer on and off it will damage the compressor module. The normal time interval is ten (10) minutes.
- **4)** The compressor is only allowed to connect to a 12V/24V DC system. It is forbidden to connect the compressor directly with an AC power supply. It will damage the compressor and void the warranty.
- **5)** The supplier is not responsible for any accidents or losses incurred from the unit.