



USER MANUAL

STF-525B

 Please read this user's manual carefully before using the product and please keep it properly for future reference!

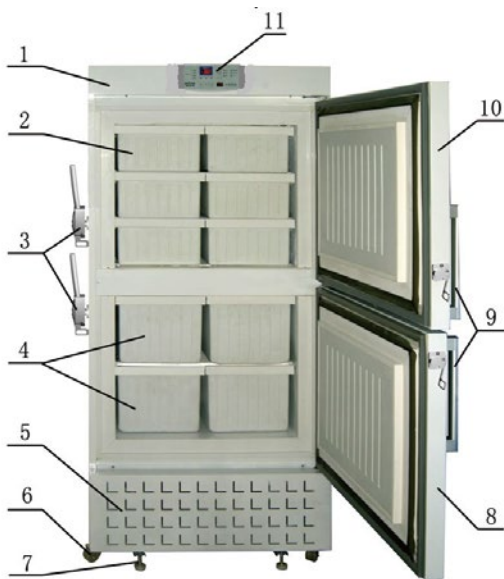
 To ensure safety, the package of product shall be removed completely before use!

PLEASE READ THE OPERATION MANUAL BEFORE USING

THE FOLLOWING PHENOMENA ARE NORMAL:

1. There will be sound of flowing water when the refrigerant is running.
2. The frozen stuff do not melt even if a long time power off.
3. When the environment humidity is too high, there will be dew condensed on the surface of the freezer.
4. When the machine is running, the condenser and compressor will be hot.

THE FOLLOWS ONLY FOR -40°C BIOMDICAL FREEZER OF STF-525B

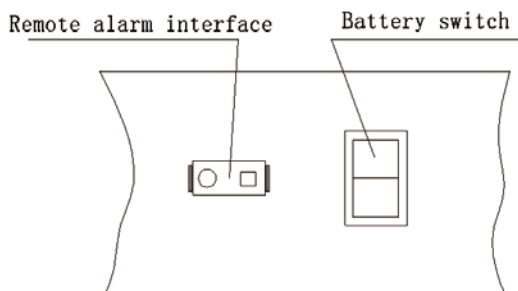


1. Top cover
2. Petite drawers
3. Lock
4. Drawer
5. Front cover
6. Casters
7. Level feet
8. The door
9. Handle
10. Door
11. Display panel

THE FUNCTION OF BACKUP BATTERY:

When the freezer will be used, please open the backup battery switch behind freezer body.

The freezer at least works at least 24 hours, the backup battery can be charged full. The backup battery can supply the electronic thermostat the power to alarm and work for 18~24 hours when outside power supply is cut off.



DESCRIPTIONS OF INDICATOR LIGHT:

Indicator light	Status	Meaning	Indicator light	State	Meaning
COMPRESSOR	Light off	Compressor stops	LOCK	Light on	Keystrokes locked
	Light on	Compressor works		Light flashes	Keystrokes unlock
NETWORK	Light off	No network information	TEMP.SETING	Light on	Display inner temp.
	Light on	Network information transmits		Light flashes	Display setting temp.
FAST FREEZE	Light on	Compressor runs continuously(no more than 3 hours)	HIGH TEMP.SETING		Display high alarm temp.
LOW TEMP.SETING	Light on	Display low alarm temp.	HIGH TEMP. SETING + TEMP. SETING + LOW TEMP. SETING	Light on or flash	Display control temp. confine

CONTROL BOARD FUNCTION:

1. "ALARM TEST": Test buzzer alarm (normal status); Cancel buzzer alarm (alarm status).
2. "FAST FREEZE": Press the keystroke, compressor runs continuously (no more than 3 hours) ; Press the keystroke again, quit "fast freeze", compressor runs normally.
3. "▲": Press the keystroke, the parameter increases 0.1°C (parameters setting status).
4. "▼": Press the keystroke, the parameter decreases 0.1°C (parameters setting status).
- 5."SET": Confirm the parameter or change the parameter (parameters setting status).
- 6."▼" + "SET": Press "▼" and "SET" keystrokes together for more than 3S, keystrokes unlock.
- 7."FAST FREEZE" + "SET": Press "FAST FREEZE" and "SET" keystrokes together for more than 3S, enters adjust sensor temperature status.

SET MODE OF INNER TEMP. , ALARM TEMP. AND CONTROL TEMP. CONFINE:

S.N.	Operation function	Keystroke operation	Display status
1		-----	Display inner temp.
2	Keystrokes unlock	Press “ ▼ ” and “SET” keystrokes together for more than 3S	Indicator light of “LOCK” and the temperature in the “TEMPERATURE [°C]” window flash together.
3	Adjust inner temp.	Press “ ▲ ” or “ ▼ ” keystroke	Indicator light of “LOCK” and “TEMP. SETING”, inner temperature in the “TEMPERATURE [°C]” window flash together. Inner temp. increase or decrease.
4		Press “SET” keystroke	Indicator light of “LOCK” and “TEMP. SETING”, inner temperature in the “TEMPERATURE [°C]” window are on together.
5	Adjust high alarm temp.	Press “SET” keystroke	Indicator light of “LOCK” and “HIGH TEMP. SETING”, the high alarm temperature in the “TEMPERATURE [°C]” window flash together.
6		Press “ ▲ ” or “ ▼ ” keystroke	Indicator light of “LOCK” and “HIGH TEMP. SETING”, the high alarm temperature in the “TEMPERATURE [°C]” window flash together. High alarm temp. increase or decrease.
7		Press “SET” keystroke	Indicator light of “LOCK” and “HIGH TEMP. SETING”, the high alarm temperature in the “TEMPERATURE [°C]” window are on together.
8	Adjust low alarm temp.	Press “SET” keystroke	Indicator light of “LOCK” and “LOW TEMP. SETING”, the low alarm temperature in the “TEMPERATURE [°C]” window flash together.
9		Press “ ▲ ” or “ ▼ ” keystroke	Indicator light of “LOCK” and “LOW TEMP. SETING”, the low alarm temperature in the “TEMPERATURE [°C]” window flash together. Low alarm temp. increase or decrease.
10		Press “SET” keystroke	Indicator light of “LOCK” and “HIGH TEMP. SETING”, the low alarm temperature in the “TEMPERATURE [°C]” window are on together.
11	Adjust control temp. confine	Press “SET” keystroke	Indicator light of “LOCK”, “HIGH TEMP. SETING”, “TEMP. SETING” and “LOW TEMP. SETING”, the control temp. confine in the “TEMPERATURE [°C]” window

			flash together.
12		Press “ ^ ” or “ v ” keystroke	Indicator light of “LOCK”, “HIGH TEMP. SETING”, “TEMP. SETING” and “LOW TEMP. SETING”, the control temp. confine in the “TEMPERATURE [°C]” window flash together. Control temp. confine increase or decrease.
13		Press “SET” keystroke	Indicator light of “LOCK”, “HIGH TEMP. SETING”, “TEMP. SETING” and “LOW TEMP. SETING”, the control temp. confine in the “TEMPERATURE [°C]” window are on together.

Note: In course of seting parameters, its no more than 8S between press the keystrokes twice.

PARAMETER DEFAULT:

Parameter	Default(°C)	Parameter	Default(°C)
Inner temp.	-36	High alarm temp.	-26
Control temp. confine	2	Low alarm temp.	-45

Note: Compressor works according to inner temp. and adjust sensor temp., for example:

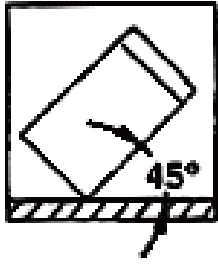
Compressor Turns on at $-36+2= -34^{\circ}\text{C}$

Compressor Turns off at $-36-2= -38^{\circ}\text{C}$

SET MODE OF ADJUST SENSOR TEMP. PARAMETER:

S.N.	Operation function	Keystroke operation	Display status
1		—	Display inner temp.
2	Enter adjust mode	Press “FAST FREEZE” and “SET” keystrokes together for more than 3S	Display “BOF” in the “TEMPERATURE [°C]” window.
3	Adjust sensor temp.	Press “SET” keystroke	Indicator light of “TEMP. SETING” and the adjusting sensor temp. in the “TEMPERATURE [°C]” window Flash.
4		Press “ ^ ” or “ v ” keystroke	Indicator light of “TEMP. SETING” flashes, the adjusting temp. parameter in the “TEMPERATURE [°C]” window increases or decreases.
5		Press “SET” keystroke	Indicator light of “TEMP. SETING” and the adjusted sensor temp. in the “TEMPERATURE [°C]” window are on.

TRANSPORTATION AND INSTALLATION:



1. When you transport the freezer, the angle between the compartment body and the ground should be no less than 45°, and you should never place the freezer up-side down.
2. Do not use any of the external part as loading points, for example, the handle, the door or the hinge.
3. When the freezer is installed or used, all the package (including board and foam plastic) should be got rid of.
4. Keeping the freezer stable to avoid vibration and noise.
5. The freezer should be installed in the place with good ventilation, a space of at least 10cm should be allowed between the surrounding wall and the cabinet wall for air condition.
6. It should be placed far from heating source and not under direct sunshine to avoid decrease of the efficiency of refrigeration.
7. Install the freezer in a dry place so as to prevent rust on the compartment body, which may affect the electric insulation.

CAUTIONS:

1. The freezer must be connected with earth correctly, never with the heating pipe and coal gas pipe.
2. In case of any damage on the electric wire and plug, please contact the after service and never do it yourself. When plug out, please take the plug, not the wires.
3. If the voltage is unstable, please choose the suitable automatic voltage regulator.
4. Connection the power to check the freezer before using, the freezer can be used until the temperature decreases obviously after 40 minutes.
5. You should adjust the electronic thermostat (display board) according to the requested temperature and quantity of the stuff and the environmental temperature.
6. After inner cabinet temperature decreases to requested temperature, put the stuff in.
7. Never put hot stuff in the freezer directly only after it has been cooled naturally outside.
8. 11. Not full the freezer and make it crowded, there should be reasonable space between the stuff for better freezing.
9. If power cut off is needed, you should wait for at least 5 minutes before turn on again to avoid damage to the compressor.
10. Never store any flammable, explosive and corrosive liquid or gas in the freezer and keep it away from them.

DEFROST:

Defrost when the frost thickness on the wall of the cabinet reaches 5mm to optimize the freezing capacity.

1. Put the stuff into other low temperature storage.
2. Cut off the power, use the defrost removal, do not apply sharp tools.
3. After defrosting, clean the wall with dry cloth, and then power on.

ALARM FUNCTION:

Alarm stypes	Cause	Light	Buzzer	Remote alarm interface
High temp.	Inner temp. exceeds high alarm temp.	Indicator light of "ALARM" and "HIGH TEMP." flash together.	Pulse noise	On
Low temp.	Inner temp. exceeds low alarm temp.	Indicator light of "ALARM" and "LOW TEMP." flash together.	Pulse noise	On
Power off	Power off	Indicator light of "ALARM" and "POWER OFF" flash together.	Pulse noise (not less than 18 hours)	On
Battery malfunction	The volt of battery is lower, or the battery switch is off.	Indicator light of "ALARM" and "BATTERY" flash together, display "E5" in the "TEMPERATURE [°C]" window.	Pulse noise	On
Sensor malfunction	The sensor or open-circuit or short-circuit.	Indicator light of "ALARM" and "SENSOR" flash together, display "E0" in the "TEMPERATURE [°C]" window.	Pulse noise	On

Note:

- You can press the "ALARM TEST" keystroke to turn off the buzzer.
- The battery can supply power to alarm for almost 18~24 hours in case of power off.
- The battery completes charge for almost 24~48 hours.
- In case of sensor malfunction, compressor operations follow the mode: Works for 15 minutes and stops for 5 minutes.

TECHNICAL DATA:

MODEL	STF-525B
ANTIELECTRICITY	I
CAPACITY (L)	525
INPUT POWER (W)	310
RATED VOLTAGE (V~)	220~
AMBIENT TEMPERATURE (°C)	10~32
INNER TEMPERATURE (°C)	-20~-40
NET WEIGHT (kg)	175
OVERALL DIMENSION (mm)	945x861x1900

Note:

1. The inner temperature of interior center can decrease to -44 °C (No load) at the environment

temperature 25°C.

2. The inner temperature of interior center can decrease to -40°C (No load) at the environment temperature 32°C.

TROUBLE SHOOTING:

TROUBLES	REASON	SOLUTION
Unfreezing	✗Inner temperature seted higher	Adjust temperature
	✗Plug and outlet not connected well	Make them connect well
	✗Fuse broken off	Change the fuse
Compressor can not stop working	✗Inner temperature seted lower	Adjust temperature
	✗Too much stuff stored in one time	Reduce the quantity
	✗Thick frost	Defrost
	✗Too much times of door-opening	Reduce the times of door-opening
	✗Too near the wall	Far from the wall
	✗Near the hot source or sun	Change the place
	✗Ambient temperature is higher	Decrease the ambient temperature
Big noise	✗Refrigerating tubes connected	Separate them
	✗Ground is not flat	Change the place

Remark: If you cannot solve the troubles according to the above-mentioned ways, please contact the after service, do not handle it yourself.

MAINTENANCE AND CLEANNESS:

1. Do not open the door frequently and too long to save energy.
2. Never leave heavy or hot stuff on the top of the freezer to avoid deforming.
3. Cut off the power before cleaning.



4. To clean the freezer, please use soft cloth dampened in some moderate detergent and hot water.
5. Use warm water to clean oil or fruit juice stain on the gasket in order to keep its elasticity. Apply some talcum powder to it to prolong its service life.
6. The freezer should not be left unused for a long time, to stop using the freezer, disconnect the main power first, then clean the inside and leave the door open for 2~3 days to dry it.

ATTENTION:

- ✧ Young children or infirm person without supervision does not intent appliance for use.
- ✧ Young children should be supervised to ensure that they don't play with the appliance.
- ✧ We have a policy of continuous improvement on our products and reserve the right to change materials and specifications without notice. To confirm the specific parameters, please according to the rated label on the product.

PACKING LIST:

Type	drawer
STF-525B	10

Certificate of Quality	
The inspector:	