LABORATORY DEEP FREEZER USERS INSTRUCTION MANUAL





Thank you for buying this Deep freezer. It has been designed and manufactured for many years of trouble-free service. Operation is very simple, but please take a few minutes to read this booklet as it contains safety information, and tips to ensure you receive trouble free usage.

Portage and installation

- When carrying the Freezer keep vertical the angle of inclination. The horizontal plane should not be over 50° otherwise it can cause compressor problems and effect normal operation of the Freezer.
- After unpacking the Freezer, remove the packing materials and place the Freezer on a level and sturdy floor near power socket.
- Do not place your Freezer near a direct heat source or direct sunlight and leave at least 6cm all round the unit for adequate ventilation. Failure to do so may affect the performance of your Freezer.
- Never place the Freezer in a location where water can reach or with high moisture.
- Ensure your Freezer is level by adjusting the feet at the bottom of your Freezer.

Exterior view



Power supply

The Freezer uses a three-hole socket which must be well grounded. Never ground the Freezer through a gas pipe, tap water pipe OR the grounded wire of single-phase power supply etc. Never share same circuit with other appliances. Before plugging in your Freezer for the first time make sure the power cable is free from damage and check that your voltage corresponds to that on the serial plate.

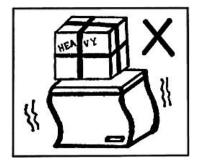
Once plugged in the display will show the temperature inside the Freezer and the compressor will run late on (the indicator light of cooling will be on at the same time). This temperature is the actual temperature recorded by the probes inside the Freezer and as the Freezer cools to the set point (factory set at -20°C/-4°F) so the number on the display will descend accordingly. If power is cut off, wait for at least 5 minutes before plugging the unit in again to avoid damaging the compressor.

Storage

- The Freezer must not be overloaded and it is recommended the Freezer is only partially filled (55%) and even at maximum stock level the content should not exceed 70% of the Freezers capacity. Leave some space around the goods to allow cold air inside the cabinet to flow
- Ensure the articles do not touch the back of the interior so as not to freezer
- Store articles away from inner fan
- Do not put warm goods into the Freezer directly until they are cooled to normal temperature.
- Shelves can be adjusted according to different applications.

Maintenance

- Do not open the door frequently and too long to save energy.
- Never leave heavy or hot stuff on the top of the freezer to avoid deforming.



- Cut off the power before cleaning.
- To clean the freezer, please use soft cloth dampened in some moderate detergent and hot water.
- 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.
- 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.

DEFROST

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

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

•

THE FOLLOWING PHENOMENA ARE NORMAL

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

It is recommend that your Freezer be serviced and calibrated every 12mths.

Structure of control panel

The Deep Freezer uses the temperature-controlled system. The figure of the control panel shown as below:



Operation and functions

• Set the temperature inside the cabinet

•

Press SET shows the setting temperature. If need to adjust the temperature inside the cabinet, can press SET above 3 seconds, and the red indicator lamp below "♣" is flash. Press ▲ or ▼ to get required temperature, loose the key, the system will work according to new setting temperature after don't operate to the controller for 15 seconds continuously.

• Signal and alarm

When the red lamp is light below "**", shows the compressor is working. When the red lamp is flash, shows the temperature controller is under parameter adjustment state.

When the red lamp is light below "*," show process on defrosting. When the red lamp is flash, shows the temperature controller is under parameter adjustment state or process on drainage.

When the red lamp is light below ", shows process on temperature or shows the temperature controller is under parameter adjustment state.

TROUBLE SHOOTING

TROUBLES	REASON	SOLUTION	
	※Inner temperature seted higher	Adjust temperature	
Unfreezing	${}^{\mathrm{H}}\mathrm{Plug}$ and outlet not connected well	Make them connect well	
		Change the fuse	
	迷Turn on the 'Fast Freeze"	Turn off the 'Fast Freeze"	
	${}^{ ext{K}}$ Inner temperature seted lower	Adjust temperature	
	${\mathbb K}$ Too much stuff stored in one time	Reduce the quantity	
Compressor		Defrost	
can not stop	ЖТоо much times of door-opening	Reduce the times of door-opening	
working	ЖТоо near the wall	Far from the wall	
		Change the place	
	${}^{ ext{ iny }}\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	Decrease the ambient temperature	
Dia noise	米Refrigerating tubes connected	Separate them	
Big noise		Change the place	

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

WARNING:

- Do not damage the refrigerant circuit.
- Do not allow children to play with the appliance, or to sit on it or to hang onto the door.
 - As far as possible away from the equipment to avoid damage to the child
- For safety, the appliance must be properly earthed in accordance with specifications.
- Do not damage any parts of the appliance which carry refrigerant by piercing, perforating, crushing, twisting or scraping. If the refrigerant comes into contact with the eyes, it may cause serious eye injury
- Always remember to unplug the appliance before cleaning. Never unplug your appliance by pulling on the power cable. Always grip plug firmly and pull straight out from the socket. Always check that the plug and cable are undamaged.
- Do not use electrical appliances inside the Freezer, unless they are of the type recommended by the manufacturer.

- .If the supply cord is damaged; it must be replaced by a special cord or assembly available from the manufacturer or its service agent.
- 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. Children should be supervised to ensure that they do not play with the appliance.
- All repairs must be carried out by qualified engineers. Inadequate repairs may be dangerous. Never try to repair the cooler yourself.
- Do not allow children to play with the packaging and destroy plastic bags safely.

Appendix Controller Parameters

Temperature Control

Doromotor		Doromot	Mi	Мо		Defau
Parameter	Descriptio	Paramet	IVII	Ma	Unit	
S	n	er type	n	X		lt
SET	Set					
	temperatur	-	r1	r2	°C/°F	-20
	e					
LS	Set					
	Minimum	A	-4 0	r2	°C/°F	-25
	temperatur					
	e					
US	Set					
	Maximum	A	r1	19 0	°C/°F	-10
	temperatur					
	e					
Ну	Temperatu					
	re	A	1	18	°C/°F	2
	difference					

Parameter description:

SET Set temperature

User set the shutdown point temperature.

LS The minimum set temperature

Permissible the minimum set temperature (St)

US The maximum set temperature

Permissible the maximum set temperature (St)

TECHNICAL DATA

Model No.	Total Valid Volume (L)	Inner Temperature (°C)	Rated Voltage/Frequency	External Dimension (W×D×H) (mm)	Internal Dimension (W×D×H) (mm)
DW-25L150	130	-10~-25	~220V/50/60	595 ×625 ×835	510×470×640
DW-25L400	400	-10~-25	~220V/50/60	600×645×1875	480×450×1625
DW-25L600	600	-10~-25	~220V/50/60	780×740×1905	645×530×1645

Note:

- 1. The inner temperature of interior center can decrease to -25 $^{\circ}\text{C}(\text{No load})$ at the environment temperature 25 $^{\circ}\text{C}$.
- 2. The inner temperature of interior center can decrease to -25 $^{\circ}\text{C}(\text{No load})$ at the environment temperature 32 $^{\circ}\text{C}$.