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- ✓ **ISO 9001 Certified.**
- ✓ **ISO 13485 Certified for Medical Instruments**
- ✓ **CE & RoHS Certified**
- ✓ **PL Insurance.**
- ✓ **Validation(IQ&OQ) Service.**

◇ English Page : P. 1 ~ 20

◇ Korean Page : P. 21 ~ 40

User Manual

(Version 2.2.1)

written for
UniFreez™ U25 models



" UniFreez™ U25 "

Ultra-Low Temperature Freezer, 25Lit.

Sales & Basic A/S :
By the Nearest Official Distributors.

EUROPEAN DECLARATION OF CONFORMITY



We, DAIHAN Scientific Co., Ltd.,
326, Sinpyeongseokhwa-ro, jijeong-myeon, Wonju-si, Gangwon-do, Korea
Tel: 82-2-967-5235, Fax: 82-2-967-5258
declare under our sole responsibility that the product

Ultra Low Temp.(ULT) Freezer UniFreez U25

to which this declaration relates is in conformity
with the following standard or other normative document

EN 61326, EN 61000-3-2, EN 61000-3-3
EN 61010-1, EN 61010-2

following the provisions of the directives:

Low-Voltage Directive 2014/35/EU
EMC Directive 2014/30/EU

EC Directive 2006/42/EC
RoHS - Directive 2011/65 EU

Signed:  (Chong ku Shu)

Date: 18 April 2016

Authority: President / CEO

For

DAIHAN Scientific Co., Ltd.,
326, Sinpyeongseokhwa-ro, jijeong-myeon, Wonju-si, Gangwon-do, Korea
Tel: 82-2-967-5235, Fax: 82-2-967-5258

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1. General

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1.1 Precautions Before Use

Thank you for purchasing the Ultra Low Temperature Freezer.

This manual describes the performance and usage instructions of the product, and the precautions in the handling. Please carefully read this manual, before using the product. The following warnings should be strictly adhered to: (The following warning sign is marked in the part that is required user attention, so please safely use the product after being well-acquainted with the meaning.)

	Warning
	Failure to follow the instructions may result in injury.
	Caution
	Failure to follow the instructions may result in product failure.
	Proximity Caution
	Keep clear of the product during use.
	Notification
	Do not disassemble or modify the product or use it for purpose other than its intended function.
	Danger of Explosion
	If volatile, explosive chemicals are used, there is a danger of explosion.
	This symbol indicates Protective earth (ground).
	This symbol indicates power "OFF" on the power on/off switch.
	This symbol indicates power "ON" on the power on/off switch.
	This symbol indicates the connection point of the neutral conductor on the installed unit.
	This symbol indicates alternating current Voltage.

1. General




1.2 Product introduction

This product supports fast cooling speed and minimal power consumption by applying SimpleFreez™ (Simplified Hi-Efficiency Freezing System), an innovative cooling system. This product was developed and manufactured considering the best possible ease of use and safety, and has the following features.

1. Its structure and electrical circuit are simplified, and the arrival time to objective temperature and the power consumption are minimized by applying SimpleFreez™ for high efficiency and safety.
2. Only 4 hours to freeze down to -86℃. Fastest recovery of operation temperature against door opening.
3. CFC-free Refrigerants are Used
4. It can prevent cold air leakage and the intrusion of the outside temperature and maximize the insulation effect because of the rigid polyurethane foam insulation and the insulation for inside the door. 3 layers of insulation are equipped with this product.
5. The user can easily open the door immediately after opening or closing it by automatically relieving the pressure difference between inside and outside by employing an automatic vacuum breaker.
6. The user can easily operate the door by employing the rugged, ergonomic door handle, and a locking function has been attached for security.
7. It can prevent damage to samples by preparing for sudden stops in movement through LCO2 spraying function support.
8. It provides convenience for management to users because management tasks such as the replacement or cleaning of the filter are omitted by implementing a filter-free mechanism.
9. The strict production management is performed through CE certification and RoHS certification.
10. PL(Product Liability) Insurance

1. General

1.3 Product Configuration

Component Photo	Component Name	No. of Configuration
	" UniFreez™ U25 " Ultra Low Temp. Freezer	1 Unit
	Hand Remover of Ice	1 ea
	Door Lock Key	1ea

- Including a copy of the Operation Manual

* Model

- UniFreez™ U300: Ultra Low Temperature Freezer, Upright type, -86℃
- UniFreez™ U400: Ultra Low Temperature Freezer, Upright type, -86℃
- UniFreez™ U500: Ultra Low Temperature Freezer, Upright type, -86℃
- UniFreez™ U700: Ultra Low Temperature Freezer, Upright type, -80℃
- DuoFreez™ U300: Ultra Low Temperature Freezer, Upright type, -95℃.
- DuoFreez™ U400: Ultra Low Temperature Freezer, Upright type, -95℃.
- DuoFreez™ U500: Ultra Low Temperature Freezer, Upright type, -95℃.
- DuoFreez™ U700: Ultra Low Temperature Freezer, Upright type, -90℃.

2. Installation

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2.1 Product Installation

1. Please be careful when transporting the product because it is heavy.
2. Please do not lay the product on the floor or subject it to shock. It can cause damage inside the product.
3. Please install the product in a hard, flat, and stable place.
4. If there is no regular interval between this product and the wall of the installation space, its cooling power becomes weak, and the power will be wasted, so this product should be installed in a place at least 15 cm apart from the rear wall and 10 cm or more apart from the side walls, and there should be an interval of 100 cm or more from the ceiling.
5. Please do not install the product in a place where it is exposed to direct sunlight, or in the dangerous places.
6. To minimize the risk of short circuits, do not install the product (in the) places where it will be subjected to the inflow of moisture or organic solvents on the regulator part or inside of the body.
7. This product was manufactured for normal operation at a rated voltage, so please check the voltage status before installing the product.
8. When installing and using the product, please certainly use the power cord provided. with the products.
9. The power plug of this product contains a ground. Please connect it to a grounded power outlet. If the ground is unstable, it may cause electric shock.

☐ **Product Liability (PL) Insurance Admission**

DAIHAN Scientific (Co., Ltd.) is a member of Product Liability Insurance (PL Insurance), so that its customers can trust our products, (believe and use its products,) by preparing against the accident which can be occurred during using the products by self-production.

[Contents]

Insurance Type: Product Liability Insurance

Publishing Office: Machinery Insurance Cooperative

Limit of Indemnity: 100 million won for Persons and Objects

Secured Area: Worldwide (excluding North America)

Emergency Contact: **DAIHAN Scientific (Co., Ltd.)** (TEL: 080-008-3000, FAX: 033-737-7575)
(TEL: 02-369-8516, FAX: 02-369-8521)

2. Installation


2.3 Product Specifications

Model		UniFreez™ U25
Capacity		25 Lit
Freezing System		SimpleFreez™ System
Temp.	Range	-86°C ~ -65°C
		at room temperature of 30°C and Humidity of 70%
	Sensor	PT100 Sensor
Compressor		Hermetic Type
Condenser Type		Block Condenser, No Pin, Filter Free Mechanism
Refrigerant		Natural (CFC Free Refrigerant System)
Controller		Digital Feedback Controller
Max. Q'ty of Racks		None, Only 10~15 boxes are applicable
Material	Internal	Stainless Steel (#304)
	External	Powder Coated Steel Plate
	Inner Door	Powder Coated Stainless Steel (#304)
Others		PL(Product Liability) Insurance CFC-Free Refrigerants, RS232 Communication Link Built in Standard Warning and Alarm Functions
Dimension (w X d X h)	Internal (mm)	200 X 420 X 300
	External (mm)	390 X 627 X 785
Weight		52 kg
Packing Size (wXdXh)(mm) & Gross Weight		880 X 860 X 1,300
		69 kg
Power Consumption		350 W
Energy Consumption at -80°C		7.72 kW/day
Power Supply & Cord Plug*		1 Phase, AC 120V, 60Hz or AC 230V, 50/60Hz, With Cord/Plug

3. Product Usage


3.1 Precautions for Use







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	Please be familiar with the user manual before using this product, and operation should be performed only by qualified personnel
	Please never tilt or lay the product during transportation, which the function of mounted cooling-related devices can be degraded, and problems can be result. Install the product in a place where the floor is hard and flat. Failure to do so can cause accidents. by negligence.
	This product should be connected to a appropriate power source that it is generally used. Please use a lower power source than the regulation load permitted (AC 120, 60Hz or AC 230V, 50/60Hz, Single-phase).
	If the installation place was moved, do not connect the power immediately. It should be connected at least 30 minutes after moving. If you use this product immediately after moving, it may cause failure of the critical parts relevant to the freezer.
	The rack should be wiped with a soft cloth and then used after mounting it before connecting the power of this product. Please put the sample into the instrument after the instrument starts to operate and its inside is completely cooled. If a smell similar to plastic comes out from the instrument, the smell disappears after it is completely cooled.



● Warnings

- Please observe the following precautions.


	This product should be operated in a room with temperature maintain between 5℃ and 40℃. Long-term use in an environment that exceeds the allowable range may cause a malfunction.
	Please do not damage or distress the power cord. (Please do not hurt on the power cord, or process it, or force bend it, or pull it, and tie it.) Also, if heavy objects are placed over the power cord, or the power cord is inserted in between objects, the power cord can be damaged and may cause fire or electric shock.
	Please do not directly spray water on the product or wash it with water, to avoid short circuits or electric shock.
	Please do not touch or manipulate the electrical parts such as the power plug with wet hands electric shock.
	Please do not operate the product by manipulation of the plug to avoid electric shock or short circuits.

	<p>Please, do not put bottles or cans into this product. If the contents in the can or bottle are expanded, it may cause the injury.</p> <p>Please do not put commercial bag-type coolants (including ammonium nitrate, urea) into this product.</p> <p>If the contents are leaked, it may cause rust and a malfunction.</p>
	<p>Please do not put commercial bag-type coolants (including ammonium nitrate, urea) into this product.</p> <p>If the contents leak, it may cause rust and malfunction.</p>
	<p>Please do not touch the samples or the containers in storage (especially metal goods) with wet hands or bare hands. Your hands may suffer frostbite. Please work after wearing gloves for low-temperature use.</p> <p>(If you search for "gloves for low-temperature use" in the DAIHAN Scientific Inc. Shopping Mall, www.AllforLab.com, you can purchase safety gloves for low-temperature with various specifications.)</p>
	<p>Please do not put goods or water containers on this product. If they fall down, people can be injured, or it may cause poor insulation and short circuit by water overflow.</p>
	<p>Please do not put your hands into the mechanical room, air outlet, or inlet. Since the fan is operating at high speed, it may cause burns or injury.</p>
	<p>Please do not hang on the door. It may cause personal injury or short circuit and electric shock.</p>
	<p>Do not install the product where it can get damp or in a dusty environment. It may cause overheating or short circuit. – Pollution Degree 2</p>
	<p>Do not install the product in a location at an altitude of over 2,000 meters (6,562 feet).</p>
	<p>This device must be connected to an earthed power supply.</p> <p>Protective conductor terminal.</p>
	<p>Do not use outdoors avoid overheating or electrical faults. The use in the place where the sun continuously shines and can get rained on it is prohibited. It may cause overheating or electrical fault of the product.</p>
	<p>Do not operate this product near a heater or an air-conditioner.</p>
	<p>Please do not use flammable or volatile products in the vicinity of the product to minimize the risk of fire. Please do not use the flammable spray such as lacquers and paint, or volatile, flammable chemicals and its similar product, in the proximity of the product. They may cause the ignition due to the spark of switch.</p>
	<p>Please avoid the disassembly or modification of this product by a non-authorized person to avoid serious electrical problems and to retain the warranty service of DAIHAN Scientific Co., Ltd.</p>

	Please regularly check whether dust or dirt are on the power plug and completely connect the plug. If the plug is covered with dust, or the connection is not complete, it will cause an electrical shock or fire.
	Please separate the power plug from the outlet for safety when the product is unused for long periods of time to avoid overheating or ignition due to dust.
	When disconnecting the power plug, it must be grasped by the hands and then pulled. Grasping only the cord and then disconnecting it may cause overheating or ignition because of internal lines being disconnected.
	If unusual noise or signs of abnormal behavior are found during use of this product, please immediately contact the supplier or DAIHAN Scientific (Co., Ltd.) after turning off the power supply and disconnecting the power line.
	When moving the product, please move it so that the power cord and the product are not damaged after disconnecting the power plug from the electrical outlet, in order to avoid the electrical shock or the ignition due to the damage to the cord.
	When moving the product, please move it so that the power cord and the product are not damaged after disconnecting the power plug from the electrical outlet. It may cause electrical shock or ignition due to damage to the cord.
	If removing the power plug, please wait 10 minutes or longer until plugging it in again. If you just plug it in again, it may cause a malfunction by placing a burden on the freezer.
	The device should be set at a well ventilated place. Be sure the holes on the side or rear surface of the body are blocked by a wall or an object. And do not operate the device at a poor ventilated place or use closed. It may cause a fire or damage of the device as not to release heat or insufficient ventilation may result.
	Set the device a lightening place. When you set the device at a dark place, it may cause an unexpected accident by mistake in operation.
	Mains supply voltage fluctuations up to +/- 10% of the nominal voltage Pollution degree : 2 (Applicable RATED POLLUTION degree.)
	Overvoltage Category: III Transient overvoltages typically present on the MAINS supply NOTE: Then normal level of transient overvoltages is impulse withstand (overvoltage II of IEC 60364-4-443
	Depending on the material that shall be treated there could exist unhealthy gases that have to be led-out of the room in the most suitable way (by connecting an exhaust pipe)
	The maximum relative humidity is 80% at 31°C and 50% at 40°C .

	If a product was transported or stored in high humidity condition, please check packaging condition before use. If the carton or wooden box is waterlogged, please contact the deliverer or our technical service engineer. Do not operate the unit before checking with an engineer, otherwise it may cause an electrical shock or a fire.
	The Sound Level of the buzzer is maximum 60dB in 1 meter distance when an error is detected.
	Please maintain the clean condition of this product by removing the foreign matter while gently wiping with the neutral detergent and a dry cloth after checking whether the foreign matter present or not, before and after using this product.
	<p>This Symbol indicates that this product is to be collected separately. The following apply only to users in European countries:</p> <ul style="list-style-type: none"> ● This product is designated for separate collection at an appropriate collection point. Do not dispose of as household waste. <p>This product is required to comply with the European Union's Waste Electrical & Electronic Equipment(WEEE) Directive 2002/96/EC</p>

● When reinstall products

	When moving this product, please, consult with a DAIHAN Scientific Inc. Service Center or Nationwide Agents. If non-specialists install this product, it may cause short circuit, electric shock, and fire.
	Because of the very heavy weight of the product, when moving the product, please be careful to prevent overturning.
	When moving the product, please move it so that the power cord is not damaged after disconnecting the power plug from the electrical outlet. It may cause electrical shock or ignition due to damage to the cord.
	When moving this product, please move it after removing all of the samples in the instrument.
	When moving or installing the product, please do not move it when it is lying down. It can cause malfunction. If you move this product when it is tilted or lying down, please operate it after letting it be stable for approximately 24 hours.

※ **All of the circuits, electrical or mechanical parts and configurations used in this product are the technical assets of DAIHAN Scientific (Co., Ltd.). Only technicians of the technical support team at DAIHAN Scientific (Co., Ltd.) or technicians approved through the education from DAIHAN Scientific should be allowed to repair this product.**

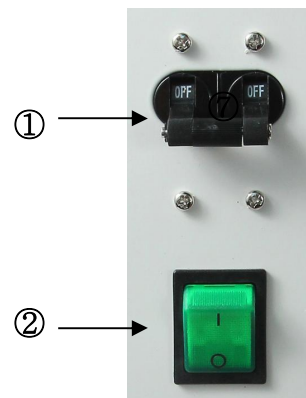
3. Product Usage

3.2 Names of Each Part

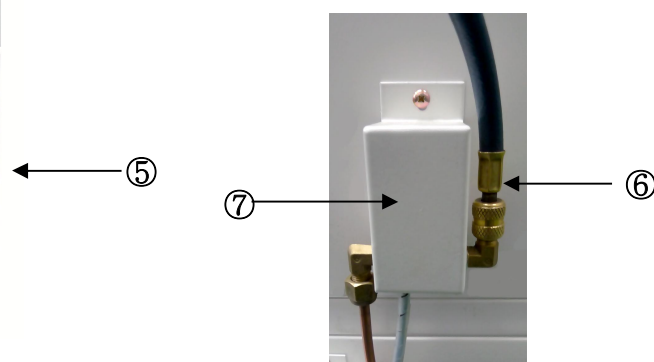
● Outside



<Fig.3.2.1> UniFreez™ U25
Ultra Low Temperature Freezer



<Fig.3.2.2> Back side of ULT Freezer.

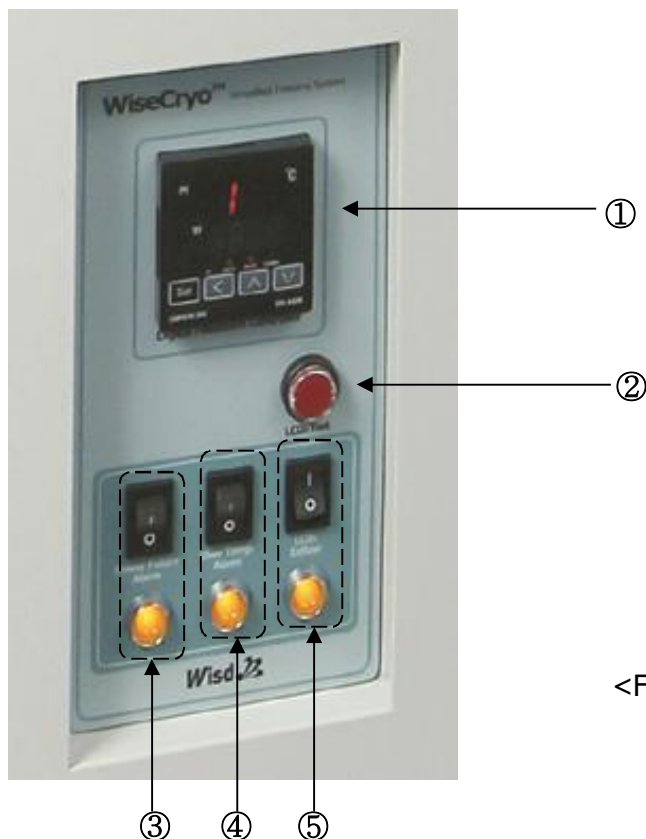


<Fig.3.2.3> Automatic Valve of LCO2 Gas

NO	Names
①	Leakage Breaker
②	Power Switch
③	Locking Function Door Handle
④	Block Condenser, No Pin, Filter Free Mechanism
⑤	Controller
⑥	Inlet of LCO2 Gas
⑦	Automatic Valve of LCO2 Gas

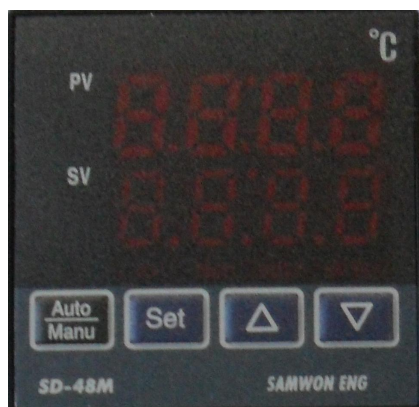
<Table.3.2.1> Names of each part and description

● Controller



NO	Names
①	Main Controller
②	LCO2 Test Switch
③	Power Failure Function Switch and Warning Lamp
④	Over Temperature Function Switch and Warning Lamp
⑤	LCO2 Inflow Function Switch and Lamp

<Fig.3.2.4> Controller for UniFreez™ U25



< Fig.3.2.5> Controller Display

Controller Display	
PV	: Present Value of temperature inside the freezer
SV	: Set Value of temperature required by users
OUT 1	: Illuminated while a compressor is operating
OUT 2	: Illuminated when a over temperature alarm is activated
AL 1, 2	: Illuminated when the event output is "ON"
COM	: Status of RS232/C communication, Illuminated in available status (RS232/C communication is served as optional request)
RDY	: Ready to operate, Illuminated in operative status
DI	: Illuminated in "DI ON"
Auto/Manu Button	: Use for saving certain value and going into "controller configuration mode"
SET Button	: Use for setting temperature value
▲▼ Button	: Increase and decrease set temperature value.
* Notice : Please don't adjust any value in "Parameter Set", if you adjust it, it may Cause bad performance or defect of unit	

3. Product Usage

3.3 Usage Instructions

- If turning ON the power of this product, please turn ON the Main Power Switch after turning ON the Leakage Breaker located at the bottom of the rear panel.
- If turning OFF the power of this product, please turn OFF the Leakage Breaker after turning OFF the Main Power Switch. If you turn OFF the Leakage Breaker without turning OFF the Main Power Switch, the operation of the controller will be continued by the battery built into this product. This system is prepared for the controller being operated by the battery built into this product, and the alarm and LCO₂ spraying can be operated when there is a problem in the power supply such as a power outage.
- Please start operation after at least one minute when you turn ON the power supply again.

① Set temperature

- Following to supply electricity power to main controller, the freezer goes into "Operation Mode" with display of present temperature and set temperature.
- Push "Set" button, then SV display is blinking and ready to set.
- Push again "Set" button to change position of set value and Push "▲" and "▼" button to increase and decrease the value. (the temperature is already set when it is released in factory)
- After completing to input the set value, press "Set" button to go back to "Operation Mode". The freezer will have stabilization time for 1 minute and will start to operate.

* Caution

1) The freezer may have stabilization time for 1 minute in operation mode. The delay time is designed and required by the reason of compressor safety. If it takes over a few minutes, please contact the nearest our official distributor or DAIHAN Scientific Co. Ltd. directly.

2) If press and hold "Set" and Auto/Manu button in "Operation Mode", it goes into "Controller Configuration Mode". The set value in "Controller Configuration Mode" is extremely important to operate and already set in QC testing process in our factory. It may cause abnormal operating and technical problem due to the set value has been changed. Therefore we do not recommend to arbitrarily change the set values in "controller configuration mode". If the freezer goes into "controller configuration mode" by accident, please push and hold "Set" button to go back to operation mode.

If the freezer does not work after changing certain set value in "Controller Configuration Mode", please contact the nearest our official distributor or DAIHAN Scientific Co. Ltd. for A/S request.

1. LCO₂ Injection

WUF Ultra Low Temperature Freezer uses the high qualified parts and has the simplest structure for superior temperature stabilization in the chamber. However, in case of sudden power failure, temperature in the device could be increased and it may cause damage of samples in the chamber.

For prevention of the abnormal case, we offer LCO₂ injection system optionally. When temperature is abnormally increased, LCO₂ gas is automatically dispersed and the system beeps.







ERROR Message	Causation	Solution
Temp Error	When display show unreasonable temp. value by out of order of temp. sensor	Call the A/S Center.
Temp Sensor Error	When temp. sensor is on abnormal.	Call the A/S Center.
Door Open	When over 1 min. after open the Door.	Check status of the Door and if still happen it even door closed, call the A/S center.
Power Error	When power supply is on abnormal.	Check the Circuit Breaker and if still happen it even leakage breaker ON, call the A/S center.

<Table.3.3.1> Error Message Table

4. Products Management

4.1 Accessories

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Image	Ordering Number	Information
	C11.001	Hard Board Box, with Hard Board Divider, 81 Holes, 127 X 127 X h52mm
	C11.002	Hard Board Box, with PolyPropylene Divider 81 Holes, 127 X 127 X h52mm
	DH.KT622	Tem. Chart Recorder, "KT622", with "C657" Chart Paper
	DH.C657	Chart Paper, "C657", 60 Charts, for 420 days recording
	DH.P222	Replacement Pens, "P222", 6ea Red color, for "KT622" Chart Recorder
	DH.LCO2B	LCO ₂ Back up System, "LCO2B"
	DH.RWAS	Remote Wire/Wireless Alarm System, "RWAS"
Validation(IQ, OQ) Service	DH.WUF30032	Validation Service(IQ,OQ), UFV32, for " SimpleFreez™ U25"

4. Products Management Method

4.2 Maintenance and Management

Ultra Low Temperature Smart Freezer was manufactured with the consideration of various situations that may occur during the operation. However, for long-term use with stable performance, please observe the following precautions:



1. Please use rated power of AC 120V, 60Hz or AC 230V, 50/60Hz, single-phase.
2. This product should be operated in a room with as little moisture as possible, and the room temperature should be maintained between 5°C and 40°C.
3. If this product is not used for long periods of time, it should be stored by packaging after disconnecting the plug and drying it.
4. If parts should be replaced due to failure during use, only genuine parts provided by DAIHAN Scientific should be used.
5. When cleaning the product, please unplug this product and take out the conservation samples from the instrument, and wipe it off with a dry cloth and dry it while leaving the door open after washing it out with warm water and some neutral detergent.
6. Please apply the polish for commercial use on the outside of the cryogenic chamber in this product. Please be careful so that the glazing agent is not stained on the plastic parts in the refrigerator.
7. The condenser and the refrigerator are very hot. Please be careful not to touch them when managing them.
8. Failures due to use beyond normal limits cannot be maintained or repaired.
9. Please clean up at least once in a year with a vacuum cleaner or a brush to remove the dust of the condenser and both galleries mounted inside the bottom of the cryogenic freezer.
10. Please pull the plug out from the freezer if you do not use it for long periods, and dry it by leaving the door open for a few days after cleaning inside the freezer so that mildew or smells do not form.
- 11. Frost can occur according to the flow of outside air in the interior door and inside the chamber. Please regularly check the thickness of the frost, and remove the frost at least once every six months.**

4. Products Management

4.3 If product Defect Occur

Situation	Confirmations and Solutions
If power does not turn ON.	Please check the connection of the power switch, and if there are not any troubles, check the power supply in the installation site of the device.
If the freezer is not operating,	<ul style="list-style-type: none"> - If the freezer is not operating although the freezer was operated at the corresponding temperature, because the freezer or the condenser may be failing, please request A/S.
If the freezer is operated but temperature has not fallen,	<ul style="list-style-type: none"> - Please check the thermostat setting. - Please make sure that direct sunlight or the material of high temperature exists close to the freezer. - Confirm that the ventilation around the instrument is good. - The same abnormal status as above does not exist, but if the temperature does not fall well, please request A/S.
If noise occurs from the freezer,	<ul style="list-style-type: none"> - Make sure that the installation is not wrong or the product is tilted. - Check that the back of the instrument is attached to the wall or it is not too close to the wall. - Make sure that foreign substance has not entered into the machine room at the bottom of this product and caused the noise by hanging on the cooling fan. <p>* The longer the period of use of the freezer is, the more the noise becomes gradually louder. If there is no abnormal operation in that state, it is a normal phenomenon. If the freezer is operating in an abnormal state, the freezer should be replaced.</p>
<p>※ If you have any problem other than the above, please call technical service of manufacturer or an official agent.</p>	

5. Product Assurance

5.1 Quality Assurance

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CERTIFICATE

of
**Quality Tested by Manufacturer
and Free Warranty up to 2 years
for Laboratory Instrument**

Limited Warranty

1. This instrument has gone through our testing process about all functions before shipment.
2. This instrument is warranted for 2 years from purchasing date.
3. A breakdown caused by customer's improper use or natural disaster is excepted from this warranty.
4. This certification is only for international customers.

Item	Ultra Low Temperature Smart Freezer
Model No.	UniFreez U25
Serial No.	
Date	
Customer	

DAIHAN Scientific Co., Ltd.

326, Sinpyeongseokhwa-ro, jijeong-myeon,
Wonj-si, Gangwon-do, Korea
Tel : +82 2 967 5235
Fax : +82 963 5231
email : info@daihansci.co.kr
www.DAIHAN-Sci.com
www.ALLforLAB.com

