



STREX

Cell Defreezing Unit Model YS Series

User's Manual and
Warranty Policy

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Thank you for your purchase of this Strex Product.

This manual and warranty notice explains how to use this device and includes safety instructions.

Please read this manual before set up and use of the product. Keep this manual in a safe place that easily available for your reference.

Contents

1. Safety Instruction
2. Overview of Standard Configuration and Optional Accessories
3. Instruction of Operation
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1. Safety Precautions

These “Safety Precautions” are to ensure that you use the product safely and correctly and to prevent harm or injury to users and other people. To prevent injury or harm please read and understand the following.

Disclaimer

- Strex is not responsible for any damage to equipment or facilities during the installation, use, or removal of the product.
- Strex is not responsible for damages caused by earthquakes, thunder, wind, fire, flood, or a third party to the machine. Negligence, misuse, or abnormal conditions resulting in damage are also not Strex’s responsibility.
- Strex is not responsible for damages caused by malfunction due to combinations of equipment or software not involving Strex.
- Strex is not responsible for any incidental damage caused by the use or misuse of this product including loss of business income, interruption of business, loss of stored data, theft of machine, etc.

These “Safety Precautions” are to ensure that you use the product safely and correctly and to prevent harm or injury to users and other people. To prevent injury or harm please read and understand the below.

 WARNING	Indicates handling before reading may cause serious injury or death.
 CAUTION	Indicates handling before reading may cause physical harm or damage.



1-1 Warning

1-1-1 Power Cable

Only use the power cable provided with this package.

Incompatible cables to the electrical requirements will result in fire or electric shock. It is very dangerous.

1-1-2 Power Supply

Always use 100 V AC Supply. Using a different voltage can result in excess heat, electric shock, short, or fire.

1-1-3 Connection of the Power Plug and Product

Firmly connect the electric plug to a wall outlet. Failure to do so may result in excess heat, a drop in voltage, or dangerous accidents.

1-1-4 Handling of power cable

Do not damage the power cable, forcibly bend it, twist it, or pull it. Also, please do not place heavy or heated objects on the power cable. The power cable may be damaged, causing fire, electric shock, accident, etc.

Do not touch the plug, cable, or product with wet hands to avoid electric shock.

1-1-5 Power Cable

Do not connect multiple power cables when using an extension cord. When using extension cord, always have a capacity of 1.2 fold or higher than the electric consumption of the product.

1-1-6 When Not in Use

When the product is not in use, unplug the power cable from the wall outlet.

1-2 Cautions

1-2-1 Basic Cautions

Do not excessively work the device. Applying more excessive stress than normal to the device may result in unpredictable damage to the machine and can result in excessive heat and fire.

1-2-2 Storage of Product

When not using the product unplug the unit and maintain regular maintenance. Especially when not in use, please wipe off the surface of the product to remove contaminants and condensation and to avoid dust buildup. Store in a low humidity place with a cover on.

1-2-3 Appropriate Lab Clothing

The use of appropriate lab wear is necessary for your research. Do not wear loose clothing, low hanging jewelry or other obstructive accessories. Restrain and cover long hair with a safety hat or hair cover.

1-2-4 Regular Check

Always keep the product clean. Check the product periodically and replace consumables and worn parts. Do not remove Warning or Caution indications on the unit.

1-2-5 During Operation

Do not touch the product with wet hands.

1-3 Caution for Environment and Space

Please do not use it in a place with high levels of dirt, dust, direct sunlight, rain, wind or humidity. This may cause fire, electric shock, failure, etc. Do not use or store for a long time in direct sunlight or high-temperature areas.

1-3-1 Installation Environment

Do not use outside and do not expose to sunlight, rain, or wind. It may cause short or fire.

Install in a cool, clean, and well-ventilated location. Failure to do so may result in excess wear, short, or fire.

Do not use near high-temperature devices such as heating devices, heaters, or under direct sunlight. It will result in excess heat. Do not use near anything flammable.

1-3-2 Installation Space

Please place the machine on a flat, hard, and level surface without vibration and make sure there is ample space to operate it. Failure to do so may cause the machine to tip over or fall causing damage or injury. The use of the machine in a confined space or without ample lighting may cause accidents to occur.

1-4 More Cautions

1-4-1 Before Operation

Read this manual thoroughly and understand its contents well. It is dangerous to operate the product without understanding this manual.

1-4-2 Check Before Operation

Avoid obstruction of ventilation to the product and ensure enough clearance is available to avoid muffling of heat. This may result in excess heat, malfunction, or accident. Always check the area around the product before operation.

1-4-3 During Operation

Pay close attention to the product during operation. Touching the product with wet hands is dangerous. Do not touch moving parts.

1-4--4 Foreign objects

Do not place any foreign objects into the product. If a foreign object has been introduced please disconnect the power cable and contact Strex. Fire, electric shock or malfunction may occur.

1-4-5 Disassembly and Alteration

Do not disassemble or alter any parts of the product.

Do not open the cover of the product. This may result in electric shock or injury.

Alteration will result in decreased safety of the product. Strex is not responsible for failure or decreased performance of unauthorized alteration to the product.

1-4-6 Irregular Circumstance

Should irregular smell, sound, or smoke be detected disconnect the power plug immediately and contact Strex.

2. Parts and Materials - Standard Configuration

The following explains the contents of the package. Please confirm that there are no missing parts. Record and report any missing parts to Strex immediately.

※ The design of the product may change without notice.

2-1 Parts and materials

- Main Unit
- AC Power Cord (1 pc)

2-2 Main Unit (Front view)



2-2-1 Power Switch

Main power switch

2-2-2 Display of Temperature reading (PV) and Setting Temperature (SV). Displaying 37°C.

2-2-3 ▼▲ keys. Do not touch

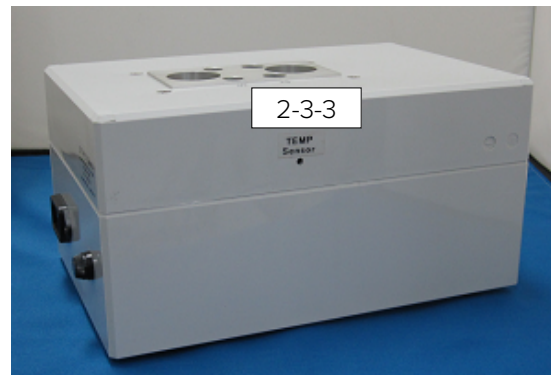
2-2-4 Sample Tube Rack Up to 6 tubes can be set

2-3 Main Unit Rear View



2-3-1 AC Power Connector

Only use the provided power cable



2-3-2 Fuse holder

2-3-3 Temperature Sensor Inserting Point

3. Operation of Main Unit

Remove all parts from the box the device is packaged in. Please confirm there are no missing or damaged parts by referring to Section 2 of this manual.

After removing all of the parts from the packaging and confirming they are present setup the unit based on Section 3-1 of this manual.

3-1 Connecting the Power Cable

3-1-1 Firmly insert the power cable into the back panel.



3-1-2 Turn the power switch “On”

3-1-3 Once the red number on the top of the display reaches 37 please insert your frozen sample vials. If the display does not show 37 within 30 minutes, please contact Strex.



Top Section: Showing the current temperature (Red: PV)

Bottom Section: Setting temperature (!Green: SV)

3-1-4 Sterilization of the Unit

A hydrogen peroxide gas sterilizer can be used to sterilize the unit. Wiping the surface of the tube rack with 70% ethanol and a clean wipe is another acceptable method of sterilization.

4. Specification

Power Input: AC100 V 50/60 Hz

Dimension: 16 x 24 (depth) x 13 (height) cm, excluding protrusion parts

Weight: 3.5 kg

Temperature Setting inside the tube rack: 37°C

Temperature Controlling: Pt Temp sensor is embedded in the sample rack, controlled by PID

Compatible Sample Tube: Nunc 4.5 mL, 6 pcs

Others: Can be used in CPC, Comply with IQ/OQ Tests

We do not provide calibration service.

5. Limited Warranty

5-1. Term: One year (1) from the delivery date of the product.

5-2. Warranty will not be provided in the following cases:

- The user is not registered or is not the first owner of the product.
- Damage caused by dropping or other impacts.
- Damage caused by inappropriate operation or storage of the instrument.
- Damage resulting from an unauthorized attempted repair or modification of the instrument by the user.
- Damage caused by unavoidable external causes such as earthquakes, lightning, fire, flood, gas leak, power surges, or other acts of providence.

5-3. Manufacturer and distributors are free from any responsibility related to loss, injury, or damage arising from machine operation.

5-4. This warranty is only available in Japan

This warranty assures that Strex Inc will repair the product free of charge as stipulated in our warranty policy. Any shipping charges will be the buyer's responsibility.

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The information contained herein such as specifications, configurations, and data or alike in part or in whole may be subject to change without notice.

Purchase Date:

Year:

Month:

Date: