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> HNZXIB Ultra Low Temperature Freezer DW-86W25 Instruction Manual

## HNZXIB DW-86W25

# HNZXIB Ultra Low Temperature Freezer DW-86W25 Instruction Manual

Model: DW-86W25 | Brand: HNZXIB

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your HNZXIB Ultra Low Temperature Freezer, Model DW-86W25. Please read these instructions thoroughly before using the appliance and retain them for future reference.

## 2. SAFETY INFORMATION

### General Safety Precautions:

- Ensure the freezer is connected to a grounded 110V power outlet.
- Do not operate the freezer if the power cord is damaged.
- Avoid placing the freezer in direct sunlight or near heat sources.
- Maintain adequate ventilation around the unit.
- Do not store flammable or explosive materials inside the freezer.
- Always wear appropriate personal protective equipment (PPE), such as cryogenic gloves, when handling samples or performing maintenance at ultra-low temperatures.
- Defrost the unit manually as instructed to prevent ice buildup affecting performance.
- In case of malfunction, disconnect power immediately and contact qualified service personnel.

## 3. PACKAGE CONTENTS

Verify that all items are present upon unpacking:

- HNZXIB Ultra Low Temperature Freezer (Model DW-86W25)
- Power Cord
- Instruction Manual

- Cryogenic Gloves (for safe handling)
- Ice Scraper (for manual defrosting)



Figure 1: HNZXIB Ultra Low Temperature Freezer with included accessories (power cord, gloves, ice scraper).

## 4. SETUP

1. **Unpacking:** Carefully remove the freezer from its packaging. Inspect for any shipping damage.
2. **Placement:** Place the freezer on a stable, level surface. Ensure there is adequate clearance (at least 10 cm) around all sides for proper ventilation. Avoid placing it near heat sources or in direct sunlight.
3. **Power Connection:** Connect the power cord to the freezer and then to a grounded 110V AC power outlet. Allow the unit to stand for at least 2 hours before powering on to allow refrigerants to settle.

4. **Initial Power On:** Turn on the main power switch. The digital display will illuminate.
5. **Temperature Setting:** The freezer is designed to operate at ultra-low temperatures down to -86°C. Use the control panel buttons (SET, Up, Down) to adjust the desired temperature. Refer to the "Operating Instructions" section for detailed temperature setting procedures.



Figure 2: Exterior view of the freezer, showing the control panel and ventilation grilles.

## 5. OPERATING INSTRUCTIONS

### 5.1. Control Panel Overview

The control panel features a digital display and buttons for temperature adjustment and settings access.

## DIMENSIONS

### Dimensions:

780mm \* 410mm \* 515mm

### Internal dimensions:

327mm \* 220mm \* 305mm

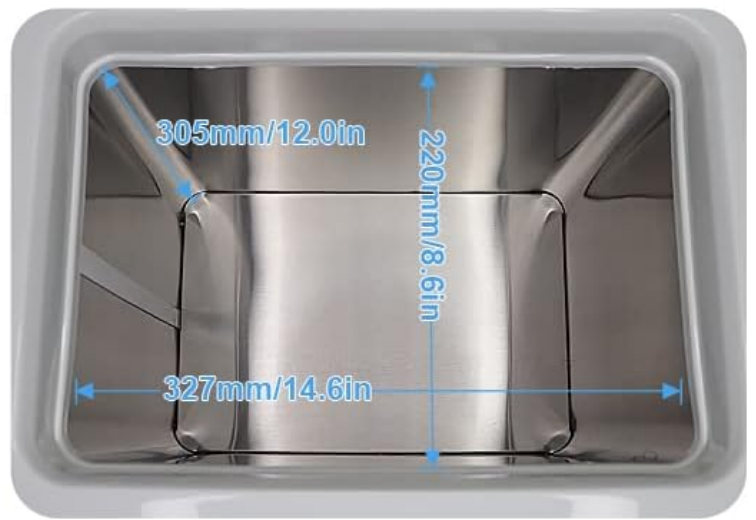


Figure 3: Digital control panel showing temperature display and adjustment buttons.

## 5.2. Setting Temperature

1. Press the **SET** button once to enter temperature setting mode. The current set temperature will flash.
2. Use the **Up** and **Down** arrow buttons to adjust the desired temperature. The freezer supports 0.1°C adjustments.
3. Press **SET** again to confirm the new temperature. The display will stop flashing and return to showing the actual internal temperature.
4. The freezer will automatically begin cooling or warming to reach the set temperature.

## 5.3. Loading Samples

- Ensure the freezer has reached the desired stable temperature before loading samples.
- Open the lid only when necessary and close it quickly to minimize temperature fluctuations.
- Organize samples efficiently to allow for proper air circulation.
- The stainless steel interior is designed for durability and easy cleaning.



Figure 4: Interior view of the 20L freezer compartment.

#### 5.4. Intelligent Temperature Alarm System

The freezer is equipped with an intelligent alarm system that provides real-time alerts for significant temperature deviations or system issues. Pay attention to any audible or visual alarms and consult the troubleshooting section if an alarm persists.

Optional data logging accessories (sold separately) can be integrated for compliance tracking and detailed temperature monitoring.

### 6. MAINTENANCE

#### 6.1. Cleaning the Interior

- Disconnect the freezer from the power supply before cleaning.
- Use a soft cloth and a mild, non-abrasive cleaner to wipe down the stainless steel interior.
- Ensure the interior is completely dry before reconnecting power and resuming operation.

#### 6.2. Manual Defrosting

- Frost buildup can reduce efficiency. Defrost the freezer when ice accumulation reaches approximately 5mm.
- Remove all samples and transfer them to another suitable ultra-low temperature storage unit.
- Disconnect power. Leave the lid open to allow the frost to melt naturally.
- Use the provided ice scraper to gently remove ice. **Do not use sharp objects** that could damage the interior surfaces.
- Wipe away melted water and thoroughly dry the interior before restarting the freezer.

### 6.3. Condenser Filter Maintenance

Regularly clean the condenser filter to ensure efficient heat dissipation and prevent dust accumulation.

1. Locate the condenser filter on the side of the unit.
2. Carefully remove the filter cover.
3. Clean the filter using a soft brush or vacuum cleaner.
4. Reinstall the filter cover securely.



Figure 5: Side panel with removable filter for condenser maintenance.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Freezer not powering on	No power supply; Power cord loose; Main switch off.	Check power outlet; Ensure power cord is securely plugged in; Turn on main power switch.
Temperature not reaching set point	Excessive frost buildup; Blocked ventilation; Ambient temperature too high; Faulty sensor.	Defrost the freezer; Clear ventilation grilles; Ensure proper room temperature; Contact service.
Unusual noise during operation	Unit not level; Loose components; Compressor issue.	Ensure freezer is on a level surface; Check for loose parts; Contact service if noise persists.
Alarm sounding	Temperature deviation; Door left ajar; Sensor error.	Check temperature settings and actual temperature; Ensure door is fully closed; Contact service if alarm persists.

## 8. SPECIFICATIONS

Feature	Detail
Brand	HNZXIB
Model	DW-86W25
Capacity	20 Liters
Temperature Range	Ultra Low, down to -86°C
Voltage	110 Volts
Product Dimensions	12"D x 8.6"W x 14.6"H (305mm x 220mm x 370mm approx.)
Item Weight	49 kg (approx.)
Installation Type	Countertop
Defrost System	Manual
Interior Material	Stainless Steel
Special Feature	Adjustable Temperature
Certification	CE



Figure 6: Dimensions of the HNZXIB DW-86W25 Ultra Low Temperature Freezer.

# 50dB LOW NOISE OPERATION



Figure 7: The freezer is designed for portability with side handles and a weight of approximately 49 kg.

## 9. PRODUCT VIDEOS

### 9.1. Product Display

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Video 1: A general overview of the HNZXIB Ultra Low Temperature Freezer, showcasing its exterior and interior features. This video demonstrates the physical appearance and basic components of the unit.

### 9.2. Temperature Setting Demonstration

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Video 2: A demonstration of how to set the temperature on the freezer's digital control panel. This video illustrates the process of adjusting the desired ultra-low temperature for sample storage.

## 10. WARRANTY AND SUPPORT

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For warranty information, technical support, or service inquiries, please refer to the contact details provided with your purchase documentation or visit the official HNZXIB website. Keep your purchase receipt and model number handy when contacting support.

In case of shipping damage, retain all packaging materials and photographic evidence, then contact the seller via Amazon for assistance or replacement.

