

## HNZXIB closed loop extractor

# HNZXIB 2LB Stainless Steel Closed Loop Extractor User Manual

Model: closed loop extractor

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## 1. INTRODUCTION

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This manual provides essential instructions for the safe and efficient operation of the HNZXIB 2LB Stainless Steel Closed Loop Extractor. This system is designed for plant extraction processes, allowing for the recovery of solvents and efficient extraction of desired compounds. Please read this manual thoroughly before operating the equipment.

## 2. SAFETY INFORMATION

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**WARNING: This equipment operates under pressure and involves flammable solvents. Failure to follow safety guidelines can result in serious injury, fire, or explosion.**

- Always operate in a well-ventilated area or under a fume hood.
- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and a lab coat.
- Ensure all connections are secure and leak-free before applying pressure.
- Never exceed the maximum rated pressure of the system.
- Use only solvents compatible with stainless steel and PTFE components.
- Keep ignition sources away from the extraction area.
- Familiarize yourself with emergency procedures and have fire suppression equipment readily available.
- This equipment is intended for professional use by trained individuals.

## 3. PRODUCT COMPONENTS

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The HNZXIB 2LB Stainless Steel Closed Loop Extractor system includes various components for assembly and operation.

Familiarize yourself with each part before proceeding with setup.



Figure 3.1: Overview of all components included with the HNZXIB 2LB Stainless Steel Closed Loop Extractor.

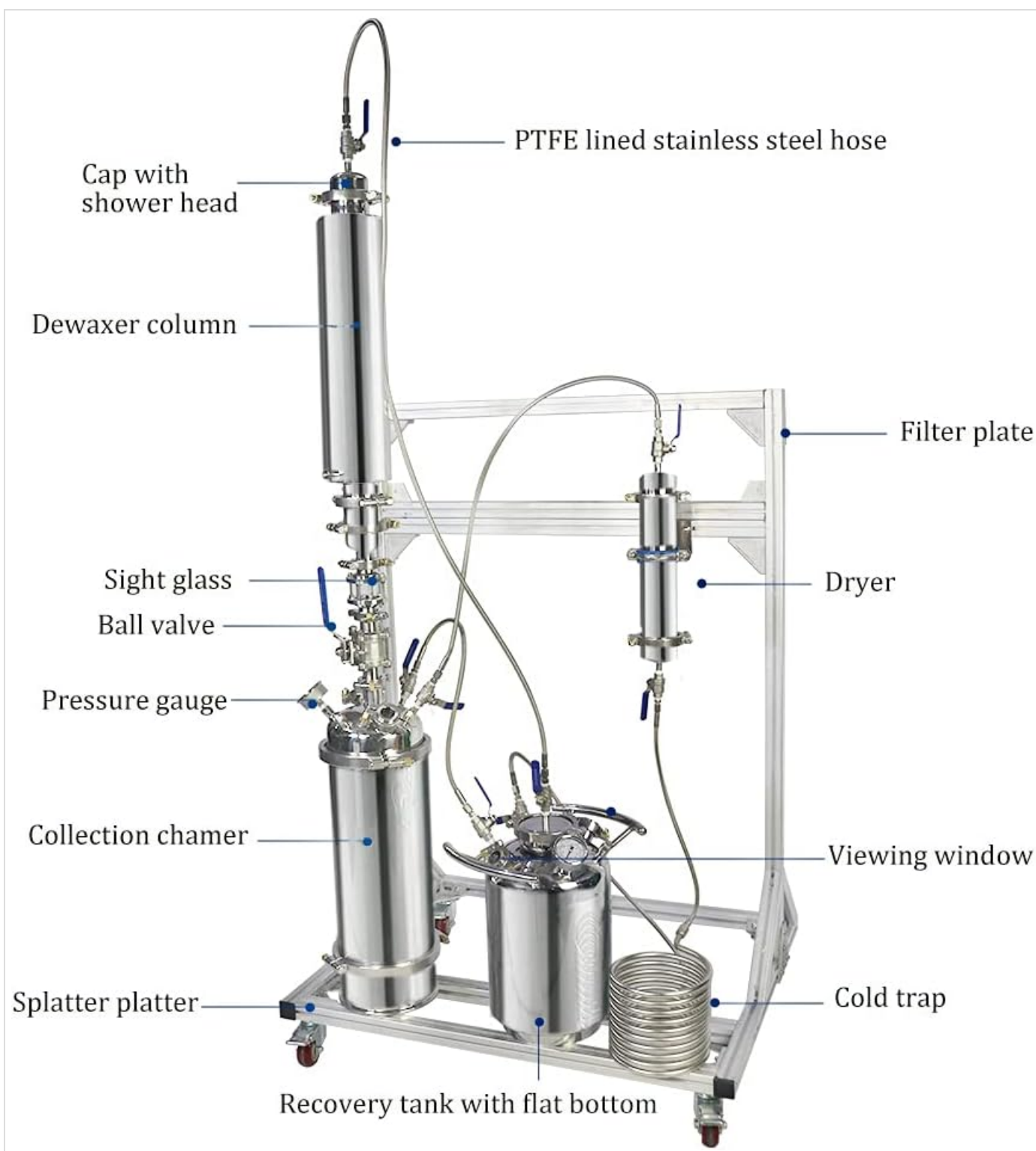


Figure 3.2: Labeled diagram illustrating the main components of the assembled extractor system.

### Key Components:

- **Closed Column Pressure Extractor:** The main unit for material loading and solvent interaction.
- **Recovery Tank with Flat Bottom:** Used for collecting the extracted oil and recovering the solvent.
- **Dewaxer Column:** A component for removing waxes from the extract.
- **Cap with Shower Head:** Ensures even distribution of solvent over the plant material.
- **PTFE Lined Stainless Steel Hose:** Provides chemical resistance and durability for solvent transfer.
- **Filter Plate:** Separates solid plant material from the solvent and extract.
- **Dryer:** Helps remove moisture from the solvent.
- **Sight Glass:** Allows visual monitoring of the extraction process.
- **Ball Valve:** Controls the flow of liquids and gases within the system.

- **Pressure Gauge:** Monitors internal system pressure.
- **Viewing Window:** Provides visual access to the process inside the collection chamber.
- **Cold Trap:** Used to condense solvent vapors during recovery.
- **Caster Wheel Design:** For mobility of the assembled system.
- **Brake Wheel:** Secures the system in place during operation.



Figure 3.3: Detailed views of key components.



Figure 3.4: Additional detailed views of system components.

## 4. SETUP & ASSEMBLY

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Follow these steps to assemble your HNZXIB 2LB Stainless Steel Closed Loop Extractor. Refer to the assembly video for visual guidance.

1. **Attach Caster Wheels:** Secure the caster wheels to the base frame using the provided screws and hex key. Ensure they are tightly fastened for stability.
2. **Assemble the Frame:** Connect the aluminum frame sections using the internal connectors and screws. Tighten all connections to create a rigid support structure.
3. **Install Support Brackets:** Attach the triangular support brackets to the frame using screws to enhance structural integrity.
4. **Mount the Collection Chamber:** Carefully place the collection chamber onto the designated area of the assembled frame.
5. **Position the Cold Trap:** Place the cold trap coil within its designated area on the frame, typically below the recovery tank.

6. **Assemble Columns:** Connect the dewaxer column and other vertical components, ensuring all clamps and gaskets are properly seated for a leak-proof seal.
7. **Connect Hoses and Gauges:** Attach all PTFE-lined stainless steel hoses, pressure gauges, and ball valves to their respective ports. Double-check all connections for tightness.

Video 4.1: This video demonstrates the step-by-step assembly process of the HNZXIB 2LB Stainless Steel Closed Loop Extractor, including attaching wheels, assembling the frame, and mounting the main components.

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## 5. OPERATING INSTRUCTIONS

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The HNZXIB Closed Loop Extractor is designed for efficient solvent-based plant extraction. Adhere to all safety precautions during operation.

1. **Material Loading:** Load the plant material into the extraction column. Ensure the material is properly prepared (e.g., ground, dried) as per your specific extraction protocol.
2. **System Sealing:** Securely close all clamps and valves. Verify that all gaskets are correctly seated to prevent leaks.
3. **Vacuum Application:** Pull a vacuum on the system to remove air and moisture. Monitor the pressure gauge to ensure a stable vacuum is achieved.
4. **Solvent Introduction:** Connect the solvent source (e.g., butane can with tip adapter, not included) to the designated port. Close the valve to allow solvent pressure to build up. The extractor will fill to approximately 85% capacity before internal pressure equals the propellant pressure.
5. **Solvent Soak:** Allow the solvent to soak the material for 30-90 minutes. The optimal soak time depends on the material and desired extract. Using frozen cans of solvent is recommended for better results.
6. **Solvent and Oil Release:** After the soak, open the bottom valve to release the solvent and extracted oil into the collection chamber.
7. **Solvent Recovery:** Initiate the solvent recovery process, typically involving heating the collection chamber and cooling the recovery tank (cold trap) to condense and reclaim the solvent.
8. **Product Collection:** Once solvent recovery is complete, the extracted oil can be collected from the recovery tank.

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Figure 5.1: Example of extracted product.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and safe operation of your extractor.

- **Cleaning:** Thoroughly clean all components after each use with appropriate cleaning agents. Ensure no residue remains.
- **Gasket Inspection:** Regularly inspect all gaskets and seals for wear, cracks, or damage. Replace worn gaskets immediately to maintain a leak-proof system.
- **Component Check:** Periodically check all valves, gauges, and connections for proper function and tightness.
- **Storage:** Store the extractor in a clean, dry, and safe environment when not in use.

## 7. TROUBLESHOOTING

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This section addresses common issues you might encounter.

- **Leakage:** If leaks occur, immediately depressurize the system. Check all clamps, connections, and gaskets. Replace any damaged gaskets.
- **Pressure Issues:** If the system does not hold pressure or vacuum, re-check all connections and seals. Ensure valves are fully closed or open as required.
- **Poor Extraction Yield:** Review your material preparation and solvent soak times. Ensure the solvent is adequately cold.
- **Slow Solvent Recovery:** Verify that the cold trap is sufficiently chilled and the collection chamber is adequately heated (if applicable). Check for blockages in lines.

## 8. SPECIFICATIONS

| Feature              | Detail                |
|----------------------|-----------------------|
| Brand                | HNZXIB                |
| Model Number         | closed loop extractor |
| Capacity             | 2LB                   |
| Material             | Stainless Steel       |
| Item Weight          | 88 kg                 |
| Manufacturer         | HNZXIB                |
| ASIN                 | B091DMS11K            |
| Date First Available | March 31 2021         |

## 9. WARRANTY & SUPPORT

This HNZXIB Closed Loop Extractor comes with a **1-year limited warranty**. This warranty excludes gaskets and screens, which are consumable items.

For technical support, troubleshooting assistance, or warranty claims, please contact HNZXIB Customer Support through the retailer where the product was purchased.

