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**Emerald**

**Gold, LLC**



**MKIII Herbinator Assembly Guide**



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## Introduction

Greetings \_\_\_\_\_!

We here at Emerald Gold would like to thank you for choosing us for your MKIII Herbinator needs! This guide should serve as an excellent manual for not only assembly of your MKIII, but also a common troubleshooting and operation guide. Within these pages you'll find all of the information you need to go from a box of parts, to your very own functional MKIII. The following pages will take you from a parts and tools check list, to final operation of your unit!

Once again we would like to thank you for choosing Emerald Gold, and remind you that you are our top priority. The customer is King (or Queen!) here at Emerald Gold, and we would like to remind you that if you have any questions, issues or concerns we are always just a phone call or email away! Our contact information follows:

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Respectfully,

All of us at Emerald Gold, LLC!

## What's Included

In your MKIII DIY Kit you will find the following:

- (1) 6" Welded Herbinator Lid**
- (1) 1.5" Tri Clamp x 1/4" Female NPT Cap**
- (1) 1.5" Tri Clamp End Cap**
- (5) 1.5" Single Hinge Tri Clamps**
- (1) 1.5" x 36" (200 Gram) Spool**
- (1) 1.5" x 1" x 1/4" Concentric Reducer**
- (1) 1" 3-Piece Ball Valve with Tri Clamp Fittings**
- (2) 6" Single Hinge Tri Clamps**
- (1) 6" x 6" Tri Clamp Spool**
- (1) 6" Tri Clamp End Cap**
- (4) 1" Viton Gaskets**
- (2) 6" Viton Gaskets**
- (2) 1.5" 150 Mesh Viton Screen Gaskets**
- (3) 1/4" 1000# WOG Valves**
- (1) 3/8" 1000# WOG Valve**
- (5) 1/4" MNPT x 1/4" MJIC**
- (1) 3/8" MNPT x 3/8" MNPT**
- (1) 1/4" MNPT x 1/4" MNPT**
- (1) 3/8" Stainless Steel 4-Way Cross**
- (2) 3/8" MNPT x 1/4" MNPT Bushings**
- (1) 3/8" MNPT x 3/8" MJIC**
- (1) 1/4" Hex Valve Cap**
- (1) 1/4" x 6' PTFE Lined Braided Hose**
- (1) Roll PTFE Yellow Gas Tape**

## What's Needed

This section will cover what you need to assemble and test your MKIII. A workbench or shop is recommended for assembly and testing, however any clean (very important) and open working area will suffice.

You will need the following, in addition to your MKIII Kit:

- \_\_\_ Wrench Set
- \_\_\_ Adjustable Pliers
- \_\_\_ Crescent Wrenches
- \_\_\_ Isopropyl Alcohol
- \_\_\_ Spray Bottle (With soapy water)
- \_\_\_ A Few Towels
- \_\_\_ A Roll of Paper Towels
- \_\_\_ Soft Bristle Brush
- \_\_\_ Safety Glasses
- \_\_\_ Air Compressor

These items, in addition to your MKIII DIY Kit, are all you'll need to assemble and pressure test your MKIII. However, you will need some additional items for operation.

## Additional Items

- Recovery Pump
- Vacuum Pump
- Condensing Coil
- Recovery Tank
- Refrigerant Scale
- Butane
- Hoses

## Collection Pot Assembly



Figure 1: Stainless collection pot items and MKIII lid

Begin by using paper towels and Isopropyl Alcohol to clean all stainless pieces and gaskets for the collection pot. Attach the 6" end cap to one end of your collection pot with the provided 6" gasket and tri clamp.



Figure 2: Collection pot with end cap installed

Next, Attach the MKIII lid to the other end of your collection pot with the remaining 6" gasket and tri clamp.



Figure 3: Collection pot with MKIII lid installed

## MKIII Lid Assembly

Start off by applying PTFE Tape to the MNPT ends of your MKIII lid. Once the tape has been applied attach the 3/8" Cross to the lids 3/8" MNPT. Once hand tightened, use your pliers to tighten the cross.



Figure 4: Attached Cross.

Next, Wrap the two 3/8" x 1/4" bushings with PTFE Tape. Attach them to the cross as shown, hand tighten, then firmly tighten with a wrench.

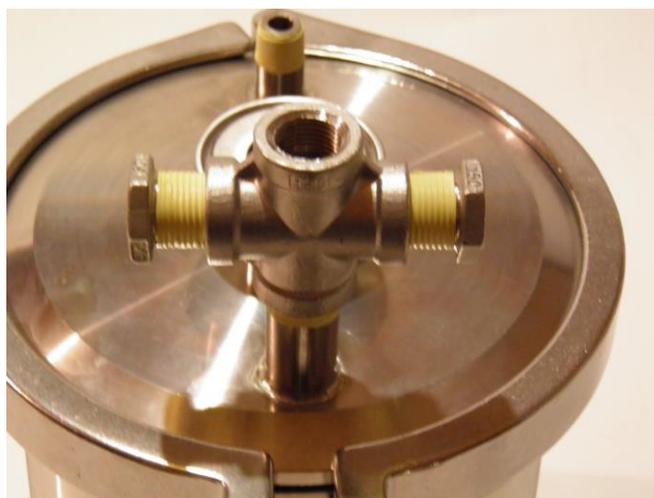


Figure 5: 3/8" x 1/4" Bushings

## MKIII Lid Assembly (cont)

Attach the 1/4" MNPT x 1/4" MJIC fitting to the 3/8" x 1/4" bushing on the right side of the cross. Use a wrench to firmly secure the fitting.



Figure 6: 1/4" Flare to cross.

Next, Attach the 1/4" MNPT x 1/4" MNPT to the opposite side of the cross, and hand tighten it. Afterwards, attach a 1/4" WOG Valve to the close nipple and secure it with a wrench, ensuring the handle is upright when fully tightened.



Figure 7: MKIII Lid with 1/4" WOG attached to cross.

Hand tighten a 3/8" MNPT x 3/8" MNPT to the top of the cross. Be sure the PTFE tape is wrapped around the close nipple prior to attaching.



Figure 8: 3/8" Close Nipple in Cross

## MKIII Lid Assembly (cont)

Attach a 3/8" WOG Valve to the 3/8" x 3/8". With a wrench, tighten the valve, ensuring it is facing outward on its last turn.



Figure 9: 3/8" Valve attached.

Next, attach a 1/4" WOG Valve to the 1/4" MNPT on the MKIII Lid. Tighten with a wrench and ensure the handle is oriented outward on its last turn. On the opposite side, tighten the 1/4" valve cap to the 1/4" MJIC fitting. This is provided for optional bi-directional support.



Figure 10: 1/4" Valve attached to lid.

## Column Assembly

Attach the 1.5" x 1/4" FNPT tri clamp cap to the tri clamp fitting on the MKIII lid with a gasket and tri clamp.



Figure 11: Attached tri clamp cap.

Next, Attach the 1/4" hose to the cap after wrapping it with PTFE tape. Tighten the hose with a wrench.



Figure 12: Attached hose.

Once tightened securely, remove the cap and attached hose from the lid.



Figure 13: Removed cap.

## Column Assembly (cont)

Attach the other end of the hose to the ¼" WOG Valve protruding from the MKIII lid.

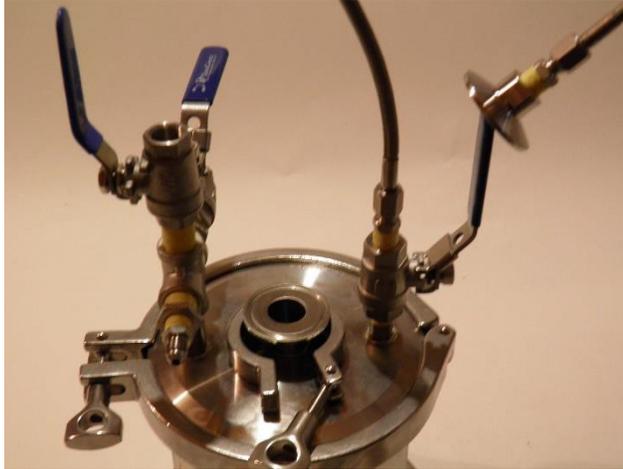


Figure 14: Attached hose.

Next, be sure you have taped the threads on the concentric reducer. Using a gasket and clamp, attach the reducer to the MKIII lid, and attach a ¼" Valve to the reducer. Secure with a wrench so that the last turn leaves the handle facing up. Once the valve is attached remove it from the lid.



Figure 15: Concentric reducer with attached ¼" Valve

## Column Assembly (cont)

Attach the 3-piece ball valve to the MKIII lid with a gasket and tri clamp, ensure the handle is facing outward and pointing upward.



Figure 16: 3-Piece Ball Valve attached.

Next, Attach the concentric reducer to the 3-piece valve with a gasket and tri clamp.



Figure 17: Concentric reducer attached to 3-Piece Ball Valve.

## Column Assembly (cont)

Place a 150 Mesh gasket on the concentric reducer and attach your column with a tri clamp.

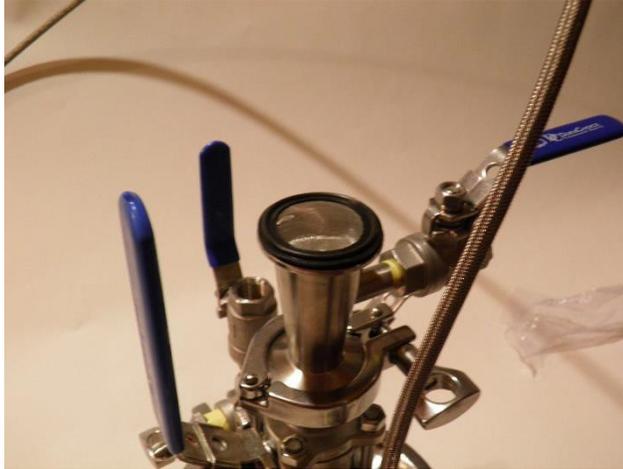


Figure 18: Mesh Gasket.

Next, attach the cap end of the hose to the top of your column with a gasket and triclamp.

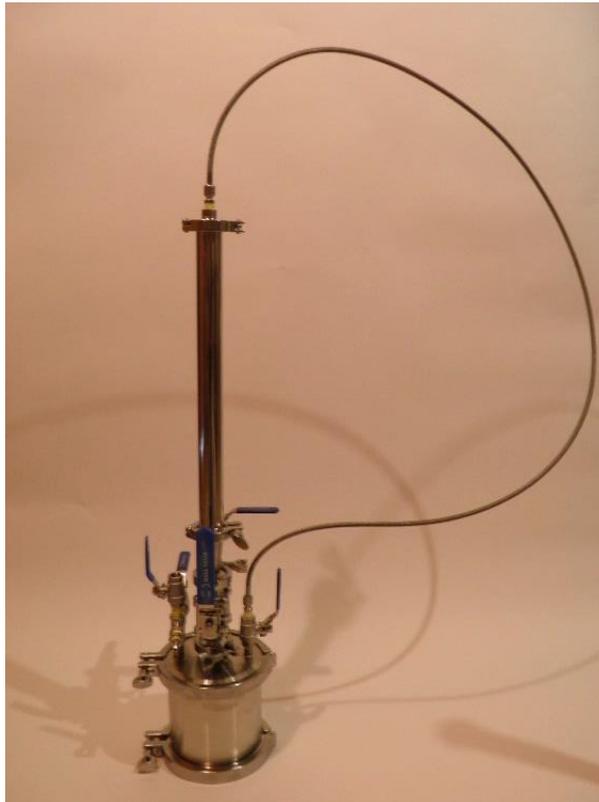


Figure 19: Completed unit.

## Valve Prep

Attach PTFE wrapped remaining fittings to their appropriate valves.

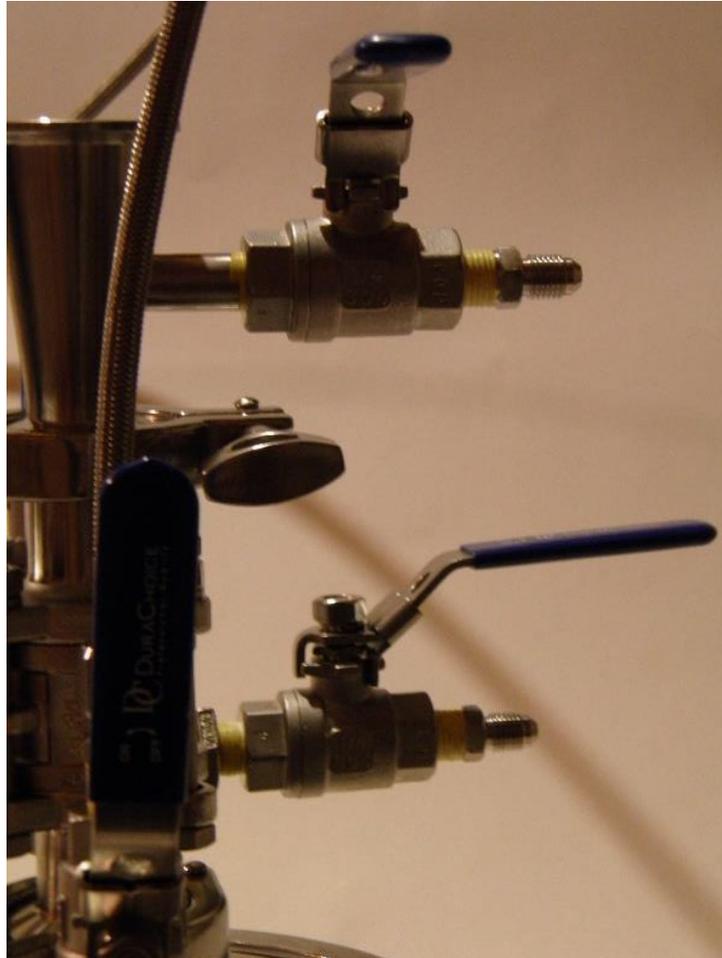


Figure 20: 1/4" fittings in Valves.

Congratulations! You've just completed the build of your MKIII! It's not time to run it yet, however! The next few pages will provide you with some guidance and advice on testing and operating your new MKIII as safely as possible!

## Testing

Using an air compressor, fill your completed unit to 75 PSI then spray all connections and fittings with soapy water and check for bubbles. Any portion of the system leaking air must be tightened while the system is NOT under pressure. Leave unit under pressure for at least 24 hours, and check for leaks with soapy water at least twice.

## Operational Safety

There are safety concerns to consider when operating anything involving solvents, flammable material, operation under pressure, and operation under vacuum.

- Never operate your MKIII indoors or in a confined space. Butane is heavier than air, and will collect in pools if not properly ventilated.
- Always operate in a clean and well ventilated area, outside is the only place Emerald Gold recommends.
- Keep all ignition sources free and clear of your operation. No smoking, burning incense, lighters, or anything else that could cause a spark.
- Utilize plastic non sparking fans to prevent butane from pooling

## Thank You

We at Emerald Gold would like to thank you for choosing us as your extractor provider. Customer satisfaction means a lot to us here. If you have any issues during assembly, questions, or concerns about anything, please call us at (417) 778 – 1589 or email anyone on our support team.

Tech Support: [Support@emeraldgoldextractors.com](mailto:Support@emeraldgoldextractors.com)

Please enjoy 5% off an upgrade kit of your choice for the MKIII promo code: THANKYOU5