
MINIMAX RECIRCULATING BOTTLE RINSER

by

TCW EQUIPMENT

TCW EQUIPMENT & SYSTEMS

2975 DUTTON AVENUE, UNIT C, SANTA ROSA, CA 95407

707-963-9681 • WWW.TCWEQUIPMENT.COM • INFO@TCWEQUIPMENT.COM

Thank you for choosing **TCW Equipment**. Since 1966 we have been proud to bring you the highest quality products made by us here in California, and imported from around the world.

INTRODUCTION

This unit was designed with several goals in mind to make the operator's job easier and safer:

- All parts should have good compatibility with spirits
- All tubing should be easy to disassemble for cleaning or replacement
- The main rinsing body should be adjustable for good ergonomics during long bottling sessions
- On the MiniMax Pneumatic, the pump should be ATEX approved, and it should use no electrical components

If you have any questions, please call us at (707) 963-9681, or email us at info@tcwequipment.com.

WARNING!

Never actuate the MiniMax without bottles covering both nozzles. Actuating the unit without bottles covering both nozzles will cause the rinsing fluid to spray out without restriction, and could potentially cause damage or bodily harm.

REQUIRED UTILITIES:

1. MiniMax Electric: 115 V Power AC 50/60 hz power, standard US 3-prong grounded plug.
2. MiniMax Pneumatic: 2.2 CFM, 50 psi clean, dry compressed air

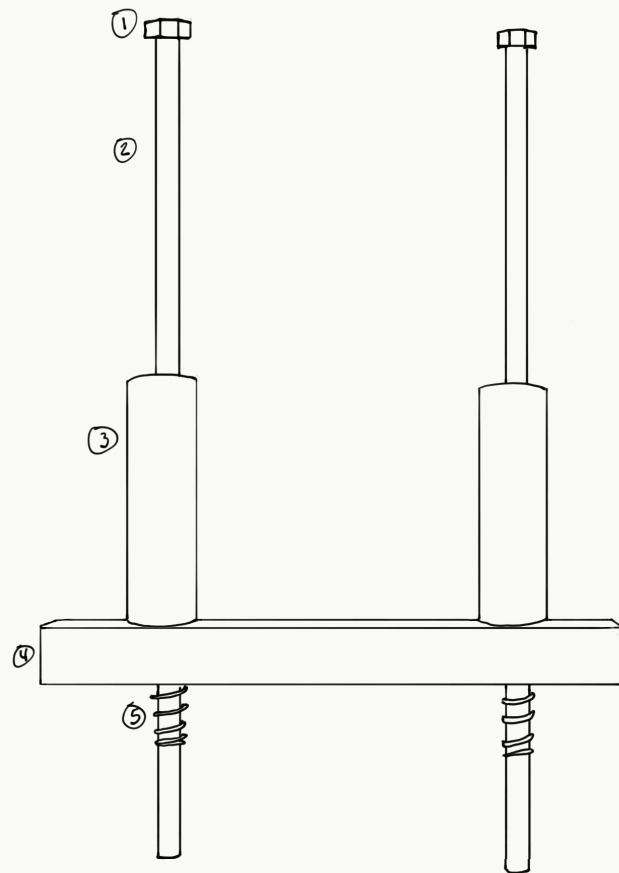
ASSEMBLY

The **MiniMax** is shipped in multiple boxes to allow us to ship via common carrier, thereby reducing the cost of shipping to you, our customer. This means some assembly is required upon receipt. It should not be complicated, but please read the instructions thoroughly to avoid issues, and to get your MiniMax running as quickly and safely as possible.

The MiniMax comes disassembled for shipping via common carrier. Minimal setup is required. All hoses are color coded with zip ties. Simply connect like-colored zip ties to the a fitting with corresponding-colored zip tie. All fittings are push-to-connect. Push them in firmly by hand, and give them a light pull to ensure they are firmly seated.

Once all hoses have been installed, the MiniMax is ready for testing. Use water for initial testing. Follow the instructions under the Normal Usage section, but do not install a filter until you are ready to use the MiniMax in production.

The nozzle components must be installed in the proper order. See the following illustration:



1. Nylon Spray Nozzle Head
2. Stainless Steel Nozzle Tube
3. Plastic Spacer
4. Actuation Bar
5. Spring

NORMAL USAGE:

Fill the holding keg about $\frac{1}{2}$ to $\frac{3}{4}$ full of your desired rinsing fluid. Close the keg with the included Tri Clamp, and ensure all tubing in the system is firmly attached. Install the included filter cartridge into the polypropylene housing. The open end of the filter should be facing up. Close the housing tightly.

MiniMax Electric: Plug the unit in and turn the switch to “On”.

MiniMax Pneumatic: Plug in the compressed air supply and adjust the built-in regulator to about 60 psi.

WARNING!

Do not allow the compressed air supply pressure for the MiniMax Pneumatic to exceed 100 psi. You may damage the pump, the timing circuit or both.

Place bottles on **both** nozzles. The MiniMax comes with several sets of spacers to accommodate bottles of different heights. Choose spacers that allow the bottle to rest deep enough on the nozzle that they are well-supported, but not so deep that they bottom out.

Once both nozzles are covered, press down gently until the pump turns on. The rinsing cycle automatically starts and stops. You do not need to hold the bottles down during the rinsing cycle.

Until the rinsing fluid reaches the nozzles, you will need to continue re-starting the rinsing cycle. This allows liquid to completely fill the filter housing, and ultimately reach the spray nozzles. At this point you can adjust the timing cycle per the instructions below. Once that is complete you are ready to begin rinsing bottles.

ADJUSTING THE TIMING CYCLE (MINIMAX ELECTRIC):

The MiniMax Electric features an electrically controlled timing cycle that can be set to automatically run from 0-5 seconds. To shorten or lengthen the timing cycle, use a screwdriver to open the control box – the smaller box behind the main rinsing body. You will find a dial that can be turned from 0-5. Use this dial to increase or decrease the cycle length as necessary.

ADJUSTING THE TIMING CYCLE (MINIMAX PNEUMATIC):

The MiniMax Pneumatic features an air-driven timing switch that normally operates from 0-7 seconds. The pneumatic timing switch can be found directly above the pump, on the keg body. Turn the timing switch knob clockwise until you can turn it no further. If you actuate the MiniMax now it should run for a very brief burst. Turn the knob counter-clockwise in quarter-turn increments until you find your desired cycle length.

FINISHING UP:

When you are finished, you can clean and empty the MiniMax by disconnecting the tubing so that it can be easily rinsed. The push-to-connect fittings allow quick disconnection. Simply press the grey actuation buttons while simultaneously pulling gently on the tubing to remove it.

Remove the Tri Clamp fitting at the top of the keg and dump out the remaining fluid. If available, you can additionally open the tri clamp port at the bottom of the keg to remove any residual liquid.

FILTRATION:

The MiniMax comes with a Graver QMC 5 μ nominal depth filter with AM end caps. If you find the spray power decreasing, the filter is likely clogged and must be replaced. Replacement filters are available from TCW.