RAPT Cannular Can & Bottle Filler Instruction Manual
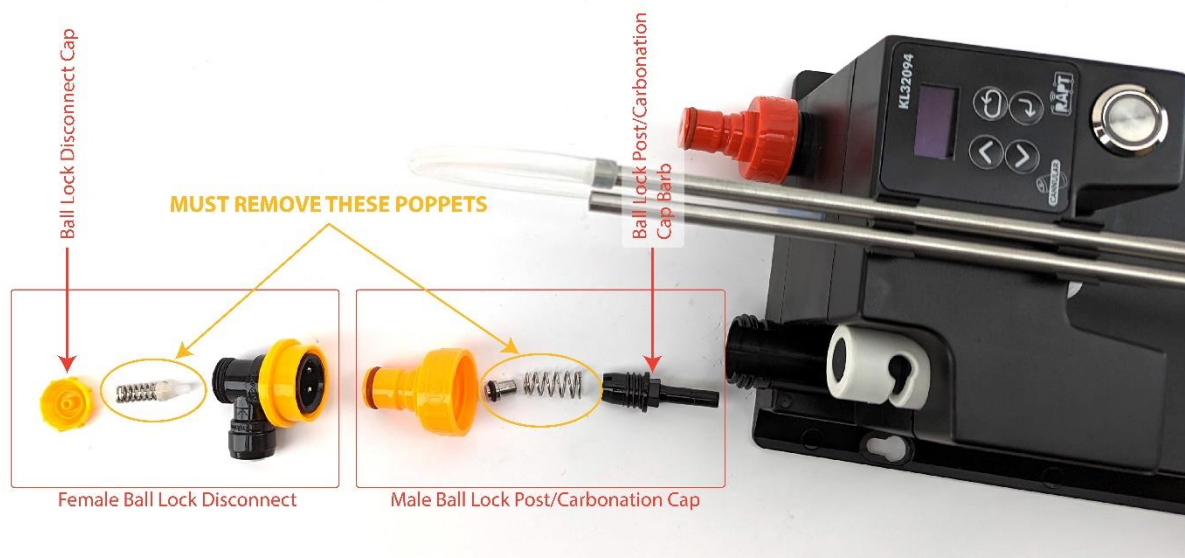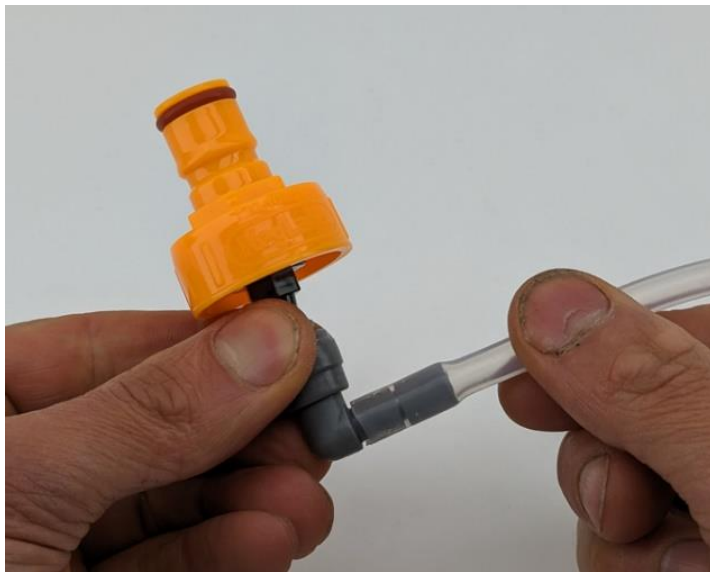
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Setup

1. The RAPT Can and Bottle Filler is ideally suited to wall mounting. If you would like to mount it to your wall you can download and print the drill template guide here:
   https://www.kegland.com.au/cdn/shop/files/RAPT_Can_and_Bottle_Filler_Wall_Mounting_Template.pdf
   When you print this make sure to print on standard A4 Paper.
2. When setting up the RAPT Can and Bottle Filler for carbonated beverages it is preferable to remove the poppet from the yellow/liquid post and yellow/black ball lock disconnect. The reason for this is because these poppets are very close to the tube opening and have almost zero head pressure. As a result of such low head pressure the poppets can cause foaming, so we recommend poppets are removed first.
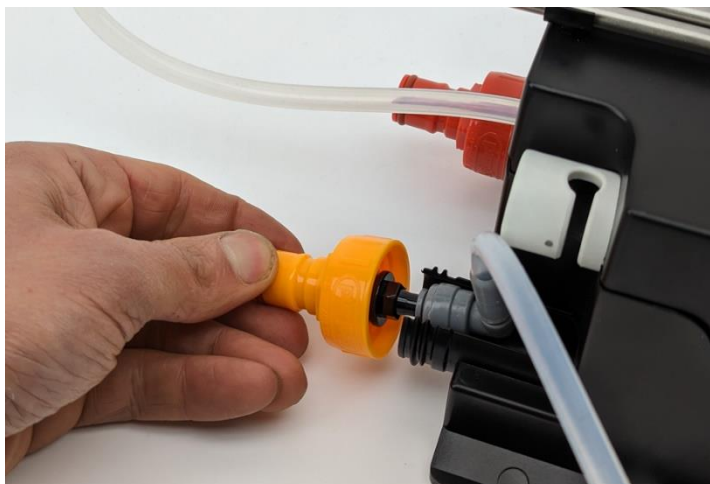

NOTE: Once you remove the poppets this quick connect is no longer a dry break connection. As a result, you will have to remember to disconnect the keg side before disconnecting the ball lock disconnect on the RAPT Can and Bottle Filler!

3. Once the poppets are removed you can fit up the liquid line.

Fit the elbow to the barb of the Ball Lock Post/Carbonation Cap Barb. Then fit the silicone tube over the elbow as shown in the image to the left.

Screw the Ball Lock Post/Carbonation Cap onto the top of the machine as shown to the left.
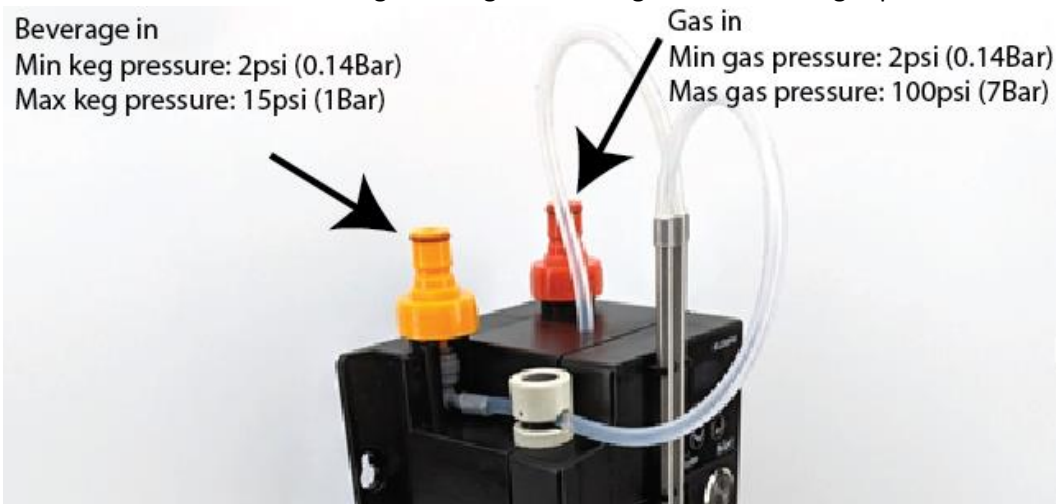

Using your thumb push down the black top of the pinch valve and this will open the pinch valve so you can slide the silicone tube into the pinch valve jaw as shown to the left.

Then push the silicone tube onto the stainless liquid tube. No hose clamps are required as only low pressures are used for the beverage tube.

Push the silicone tube over the stainless tube and then clip the stainless tube into the front of the RAPT Can and Bottle Filler.

4. The RAPT Can and Bottle Filler requires a 24v DC power supply with a minimum of 1amp rating. Plug in the power supply and connect to the RAPT Can and Bottle Filler.

5. When setting up the plumbing attach your beverage and gas line to the yellow and red posts on top of the unit. Do not exceed the 15psi (1 bar) pressure limit for the beverage set pressure. The gas pressure can pretty much be anything above 2psi. Higher pressures are not an issue as we have an integrated regulator to regulate down the gas pressure.

Beverage in
Min keg pressure: 2psi (0.14Bar)
Max keg pressure: 15psi (1Bar)

Gas in
Min gas pressure: 2psi (0.14Bar)
Mas gas pressure: 100psi (7Bar)

6. Once you have attached the gas to the red post you will need to adjust the integrated regulator. This just needs to be done once when you first get the RAPT Can and Bottle Filler. Use a screw driver and adjust the knob so it's all the way out (anti-clockwise).

Integrated Regulator

CLOCKWISE = Higher Pressure

ANTI-CLOCKWISE = Lower Pressure

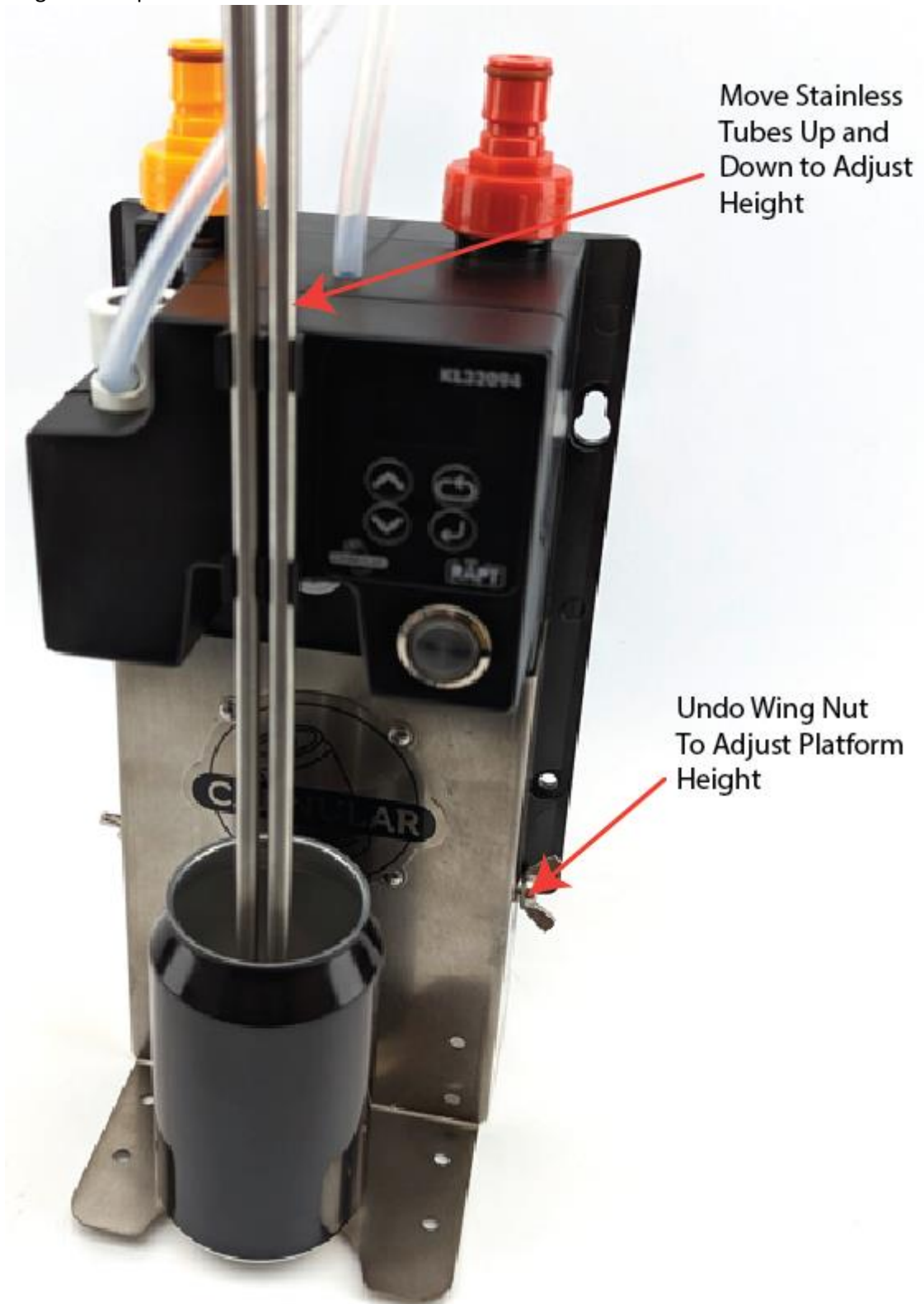You should see bubbles while "purging" sequence is running and no bubbles when purging sequence stops.

Place a large glass that is full of water into the machine. Press the start button then gradually turn the regulator adjustment screw clockwise until you see bubbles come out of the gas tube. Only a light flow of gas is required. Once you see vigorous bubbles in the water this will be sufficient.

NOTE: If you have the gas pressure set too high this could overwhelm the valve inside of the machine and gas will never stop flowing even when the purge process is complete. If this happens simply turn the regulator adjustment anti-clockwise to lower the pressure to rectify this issue.

7. To minimize foaming it's important that the stainless tubes go to the bottom of the vessel that you are filling. You have two types of adjustment to do this. You can move the tubes up and down to adjust where they sit inside the vessel.
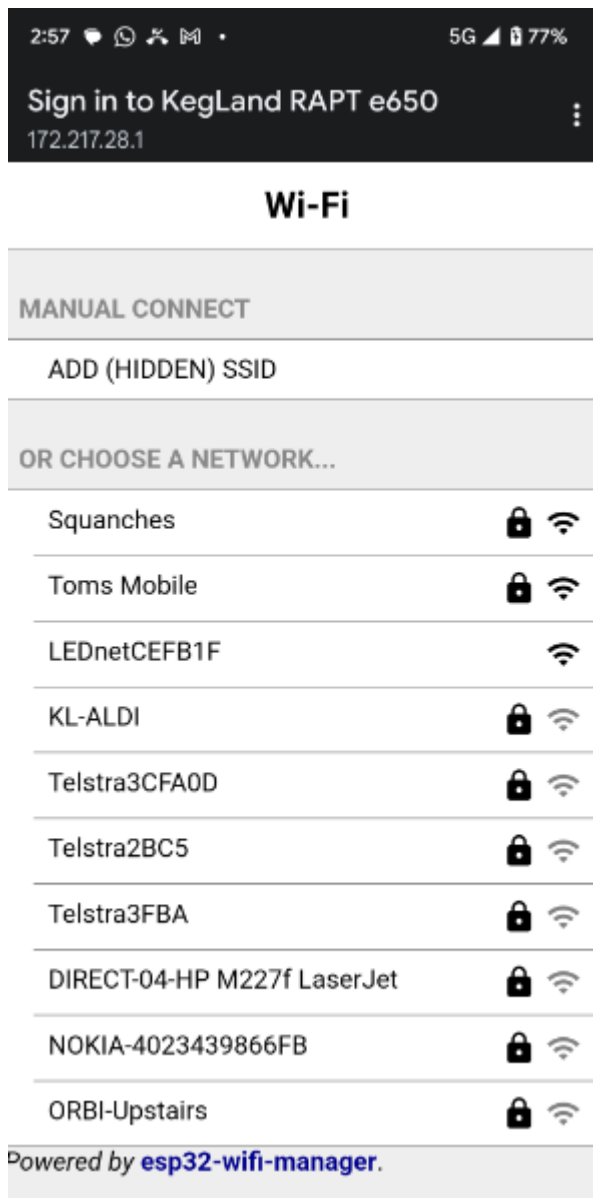
   You can also undo the wing nuts on the side of the RAPT Can and Bottle Filler and adjust the height of the platform.

Move Stainless Tubes Up and Down to Adjust Height

Undo Wing Nut To Adjust Platform Height

General Usage

1. To get the most out of this device we recommend that you connect the device to your Wi-Fi network and connect your device to your app.rapt.io account on the web portal. This has two major advantages:

   a) The device can download the latest firmware version.

   b) Your filling profile and usage of the machine are synced with the web portal.

   First connect the can filler to your home WIFI network by going into the settings menu on the device and click on "**connect to wifi**". Use your phone to connect to the RAPT Can and Bottle Filler's own network called "**KegLand RAPT XXXX**" and then enter the password that is on the screen of the RAPT Can and Bottle Filler. This will connect your mobile phone directly to the RAPT Can and Bottle Filler and your phone should navigate to the setup page that will look similar to this
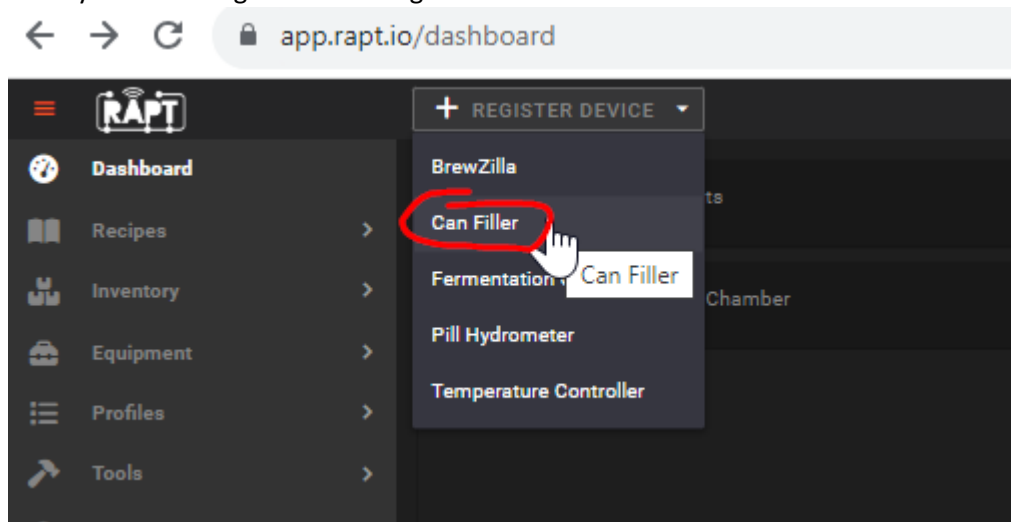
Select your home WIFI network from the list and then input the password to your own home Wi-Fi network.

2. Now that the device is connected to WiFi go into the settings menu and click on "**check for firmware updates**" to ensure you have the latest firmware build for the device.

NOTE: YOU WILL NOT BE ABLE TO REGISTER TO THE RAPT PORTAL UNLESS THE FIRMWARE IS UP TO DATE

3. Now that the device is connected to your Wi-Fi network and the firmware is up to date you can register the device to your own app.rapt.io login. If you do not have an account, make a new login at the website https://app.rapt.io/

Once you have a login click on "register device" and select "Can Filler"

Then go to the RAPT Can and Bottle Filler and also select "Register Device"

The RAPT Can and Bottle Filler will then show the MAC address and Code on the screen. Type this MAC address and Code into the app.rapt.io web portal then click the forward arrow to go to next.

Then select a name for this device and then click the tick button to finish the registration process.

4. Then go into the settings menu and go into "**fill presets**". Select the preset that is most suited to the vessel that you are using. When you first get the RAPT Can and Bottle Filler you can adjust the presets so they are perfect for your particular application.

5. Once you are happy with the preset then click on the "start button" (the one with the green LED light) and the filling process will start.

6. If you want to make a small adjustment to the fill level "on the fly" you can use the up and down buttons on the display to either increase or decrease the "offset". This figure will not permanently save in that preset so if you find that a preset is consistently off (either fills too much or fills too little) then it's best to go into the preset setting and permanently save a new figure there.

Cleaning

As the beverage never enters the housing of the machine it's very easy to clean out the RAPT Can and Bottle Filler. Simply push the top of the pinch valve to open the pinch valve, pull out the silicone tube and put the whole beer line and stainless tube into the sink:
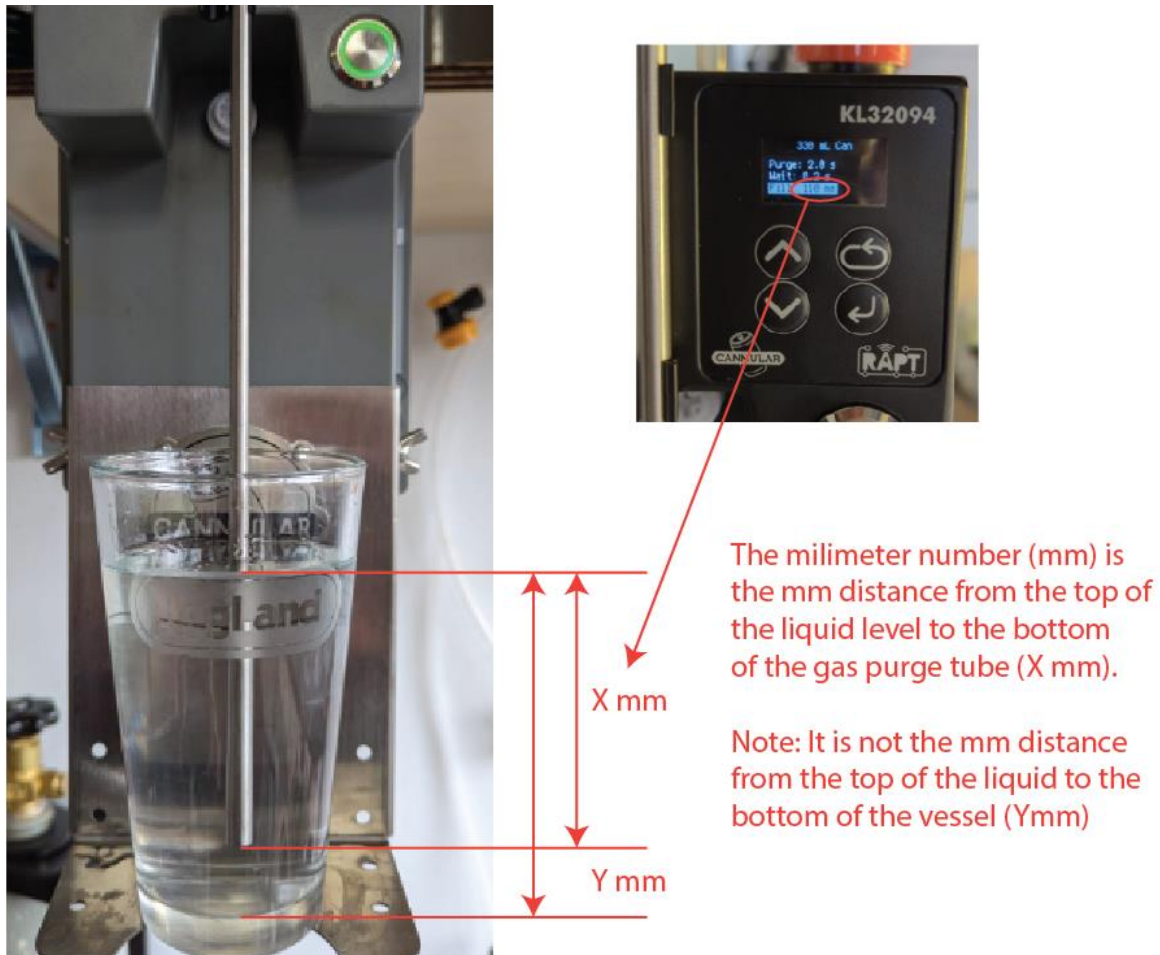
Hold the beer line and stainless tube up to your water tap and flush water through the tube.

Hang the liquid tube assembly up on a hook so it can drain out completely.

Units in mm

The units on the RAPT Can and Bottle Filler are in mm as the units are in "millimetres" which should not be confused with "millilitres". The way this machine determines the fill level is by using the pressure inside the gas purge tube and then uses this pressure calculation to work out the height in mm of the liquid inside the vessel.

The milimeter number (mm) is the mm distance from the top of the liquid level to the bottom of the gas purge tube (X mm).

Note: It is not the mm distance from the top of the liquid to the bottom of the vessel (Ymm)

WARNINGS

When not in use disconnect the RAPT Can and Bottle Filler from the gas supply to prevent the risk of gas leaking to atmosphere.

When not in use disconnect the power supply, clean the liquid and gas tubes out thoroughly to prevent mould.

Only use 24V power supply that comes with the unit. DO NOT attempt to use other power supplies that are rated to a different voltage.