Instruction Sheet

WELCOME TO THE CLUB
BrewZilla 65L ALL IN ONE
DOUBLE BATCH BREWERY WITH PUMP
GEN 3

WARNING IMPORTANT INFORMATION!

1. Please read this ENTIRE instruction sheet before using the BrewZilla unit. If you are unsure about any part of using this brewery please refer to the YouTube videos that we have made or contact your local distributor.

2. If the BrewZilla is damaged in any way do not use it. Contact your local distributor.

3. NEVER turn on the pump without attaching the recirculation arm shown in step 4 of the instructions. If you do not fit this arm you could be at risk of spraying hot wort into the air causing injury. Please

4. NEVER run the pump dry for extended periods. This can damage the pump.

5. NEVER lift the BrewZilla when it is full, we strongly urge you to use a hose to fill your unit. Use the pump or ball valve to transfer your wort. Lifting a heavy / hot BrewZilla may result in serious injury.

6. If at any stage the recirculation arm is not fitted and/or needs to be removed always ensure the ball valve is turned off (see instructions under the heading BEFORE WE START)

7. Do not boil dry. Do not turn on the elements if there is less than 8 liters of liquid in the boiler. This is the minimum fill level.
PARTS CHECKLIST

- Main BrewZilla Unit With Pump (15 amp Plug)
- Glass Lid
- Immersion Chiller
- Rotating Recirculation Arm Extension with Male & Female Camlocks + Camlock Washer
- BrewZilla Boiler Perforated False Bottom + Hoop Ring Thread, Nut & Washer
- Malt Pipe Assembly:
  a) Malt Pipe Body
  b) Malt Pipe Handle
  c) Malt Pipe Lower Tube (with 3/8 male thread)
  d) Malt Pipe Upper Tube with x2 welded lock springs
  e) Malt Pipe false bottom with 3/8 female thread
  f) Malt Pipe Secondary Mesh Screen
  g) Malt Pipe Cover Screen
  h) Malt Pipe Upper Tube with Overflow Funnel
  i) Malt Tube Black Silicone Plug

BEFORE WE START

Your BrewZilla will enable you to have the freedom in crafting your own craft beer on a bigger scale!

In this instruction manual we’ll teach you the basics to get you on your way to making your very own all grain craft beer.

The BrewZilla was created to help introduce the public into All Grain Brewing without the headaches of drilling holes in pots and wiring up boxes. Here we strive to help you on your journey into the homebrew world. With a world class customer support base behind us and a growing community of friendly and helpful brewers of all skill levels, we all strive to get each others beer to be the best beer you can make.
Firstly, there are some things we need to discuss in terms of safety.

As we will be dealing with electricity, hot liquids, pumps etc. There are some inherent dangers that need to be considered prior to operating. Always use a sturdy bench where the BrewZilla cannot fall over. Or simply brew on the ground. Do not brew in an area with poor ventilation, high foot traffic area or any area where children can reach the BrewZilla unit.

Before you start using the brewery check that you have all the components in these instructions.

Please also check that before you fill the BrewZilla unit that this ball valve on the side of the unit is turned off and is in the horizontal position (shown in the picture to the right).

The bottom of the BrewZilla has been lifted and vent holes multiplied. For this reason you can brew directly on a flat surface without fear of parts overheating with extended boils.
1. BOILER PERFORATED FALSE BOTTOM ASSEMBLY

This model of BrewZilla has been designed with a perforated false bottom (legged false bottom) for the boiler. This false bottom HAS NOT been designed so you can place grain directly onto this screen. This false bottom is designed to protect your pump from solids and drawing in things such as hop pellets, flowers, spices, grain, etc. This false bottom adds significantly to the reliable operation of the BrewZilla units and it’s recommended that this screen is always in place if the pump is going to be used.

The false bottom has legs that suspend the false bottom about 30mm above the base of the boiler so all liquid that exits into the pump out via the ball valve will be filtered using this screen.

A fully stainless hoop ring with a thread and nut will need to be manually attached to aid in lifting out the false bottom. These parts will be in your BrewZilla kit.

Once the screen is in place fill the boiler with the desired amount of water for mashing in. Set the temperature on the display and wait for the water to heat up.
2. TAP ASSEMBLY

The tap for the BrewZilla is fairly straight forward to fit. Make sure the silicon seal is on the tap body prior to installation. (see image below).

The lock nut can be tightened onto the thread from the inside of the BrewZilla boiler.
3. MALT PIPE ASSEMBLY

The malt pipe is the piece that sits inside the boiler and contains your grain.

The malt pipe is made up of a top screen and a bottom screen.

As you can see from the right it has no silicone seal. The screen also has a threaded section for the adjustable overflow rods.

Once the rod is screwed into the bottom place the malt screen inside the malt pipe.

Once the bottom screen is in place use the extension tube and place this on top of the other stainless tube that you just attached to the bottom screen.

There is no need to push this extension tube all the way to the bottom.

After you have attached the extension pipe you can then use the small black silicone plug and put this over the hole at the top of the extension pipe. This plug will prevent grain for pouring into the middle of the pipe and ending up in the boiler.
We recommend installing the malt pipe handle **before** you add your grain and malt pipe into your BrewZilla.

To fit the handle feed one end of the handle through one hole in the malt pipe. Push the handle in on one side far enough so you have enough clearance on the other side to feed the handle into the opposing hole.

Once the handle has been fitted you can lift/maneuver the malt pipe easily.

As this malt pipe will be quite heavy to lift by yourself. We recommend using a pulley system Part No. KL4855

Otherwise we strongly recommend getting another person to help you lift the malt pipe out safely.
4. MASHING

We recommend lifting up the malt pipe empty to insert the malt pipe handle before you add your grain. Once the malt pipe has been assembled you can pour your grain into the malt pipe. The malt pipe is designed to take up to about 16kg of grain but in the majority of recipes you find on the internet are for single batches. We highly recommend plugging in the same recipe into Beersmith and doubling all the amounts with the 65L BrewZilla Profile to get the best results.

Once the grains have been poured into the malt pipe it’s important to stir in the grains and remove all dough balls (dry spots). Thoroughly stirring the grain will take you about 2-5 minutes.

Once you have stirred in the grain fit the top screen (shown to right)

The top screen should be placed so that it lightly touches the top of the grain

Once you have fitted the top screen use the stainless siphon cone and place this over the extension tube with the cone side facing up.

Push down on the cone until the extension tube and cone is sitting gently against the top screen. (shown to the left)

Please note: We recommend not going above 1500w while the malt pipe is inserted. Please note the pump MUST be on if you have elements on while the malt pipe is in. Failure to do this and you will end up with some dark sweet beer!

NOTE: The wattage buttons on 110-120v BrewZilla units is less.
5. FITTING THE CAMLOCKS TOGETHER

Recirculation is something that can be done easily using the pump that is built into this model of BrewZilla.

It is recommended to purchase some extra silicon tubing with the BrewZilla as this will help with transferring the wort from the BrewZilla unit to your fermenter using the pump or the ball valve.

If you are recirculating during mashing you can use both the 1000w element & 500w. This will normally be fast enough on it’s own to gently heat the mash.

The recirculation speed can be controlled using the ball vave at the base of the recirculation arm.

NOTE: Due to the power constraint on 110v AC systems the wattage of the 110v BrewZilla units in countries such as America will be less than what is shown in the photos to the right.

WARNING: The recirculation arm must be fitted whenever the pump is in use. Follow these instructions to fit the recirculation arm.

Before attaching your recirculation arm, please check to see if the silicone washer is still in the female camlock. If that has rattled loose or fallen off it will not make an entire seal and will leak when the pump is in use.

We must stress not to rotate the rotating racking arm while it is engaged in the lock down position. If you need to rotate the racking arm to fill your fermenter, please switch off the pump and readjust the camlock to the position you need then re-engage the camlock.
6. TEMPERATURE

The temperature on the display reads the temperature at the bottom of the boiler near where the element is mounted. It is important to understand that this is not the core temperature of the mash. If you recirculate for long enough the mash temp will eventually be close to the display temp. With that said if you want to increase the temperature of the mash it is normally fastest and easiest to overshoot the desired mash temperature by a few degrees while using a secondary thermometer in the mash to keep an eye on the core temperature of the mash.

A photo to the right shows the placement of the probe. The probe placement has been designed like this as it prevents the element from overheating and scorching wort by taking the temperature of the wort closest to the element. This is why your strike temperature needs to accurate!
7. SPARGING

Once you have mashed your grain for 60-90 minutes it’s then time to sparge the grain.

Using the malt pipe handle lift the malt pipe out of the boiler and rotate 90 degrees until you see the feet of the malt pipe locate near the wire supports. (see picture to the right)

Once the feet have been located place the malt pipe down and ensure its securely in place.

Pour warm water (approximately 75-80C) on top of the grain inside the malt pipe and this will rinse the grain of the majority of remaining sugars. This process will probably require 10-25 liters of water depending on your recipe and desired gravity that you are trying to achieve.

We highly recommend a secondary vessel to hold hot/warm water for this process. If not hot water directly from your faucet will do.
8. BOILING
Boiling is one of the final steps to making beer in the BrewZilla. Simply set the temperature to 140°C and turn on all three elements. Once the BrewZilla has started to boil normally the 2000 watt element (or 1000w & 500w depending on the batch size) is sufficient to maintain a constant rolling boil. Then make your hop additions as per your recipe.

9. COOLING
The BrewZilla includes an immersion cooling coil.

Optional counter flow chiller can be purchase separately but these are complicated to use and it is sold as an optional extra.

The immersion chiller is easy to use and clean. Simply connect your garden hose to each end and run cold water through this while it’s immersed in the wort inside the boiler.

If you want to accelerate the cooling process you can also stir the wort while cooling or use a pump to recirculate the wort. This will increase the cooling speed of the process.

Compression fittings for the immersion chiller can be purchase separately if you want to use threaded connections for camlocks or garden hose fittings. (see picture below - part number KL02004). This will enable any ½” BSP threaded fitting to be attached.
HOT CUBING

Another great method of cooling wort that saves time is hot-cubing. If you fill a plastic cube shown to the right with hot wort then quickly fit the lid this will keep your wort in a sanitary environment. If you use this method make sure to purge air out of the cube and then simply leave the cube at ambient temperature for 24hrs to cool down.

ICE BATH

Although the immersion cooling coil was intended to be used with cold water running through it there is also another method that is worth mentioning. That is to run the hot wort through the coil then to immerse the coil into an ice bath.

If you prefer to use this method then connect some silicon tubing to the recirculation arm and then the other end to the immersion cooling coil. Recirculate boiling wort through the coil and back into the boiler for at least 5 minutes to make sure the coil is hot and any potential bacteria in the coil is exposed to boiling wort.

Then place the cooling coil into a bucket of ice water. Use the ball valve on the recirculation arm to adjust the flow rate. Adjusting the flow rate on the recirculation arm will affect the temperature on the output of the coil. So use this adjustment to achieve your desired wort temperature so the wort is at a suitable temperature to put into your fermenter.
DIGITAL CONTROLLER & TEMPERATURE SETTINGS

Display
Actual Temp – This displays the current temperature. Please be aware that this is the temperature that is taken at the bottom of the BrewZilla close the element. As a result, this temperature will often not be the same as the core temperature inside the grain in the malt pipe. Typically if you want to increase the core temperature of the grain in the malt pipe you will have to set the target temperature several degrees warmer than your desired mash core temperature.

Target Temp – This is the target temperature at which the elements will continue to operate. Once the target temperature is reached the elements will turn off.

Time Elapsed – This is the amount of time that has elapsed. This will only be displayed in auto mode.

Target Time – This is the amount of time allocated to a particular stage. This will only be displayed in auto mode. The once the time elapsed has reached the target time the unit will cycle to the next stage.

Stages 1-6 – This model has 6 different stages at which you can preset a time and temperature. Once the time has cycled out from one stage it will jump to the next stage. Once all the stages are complete the alarm will sound. If you set 00:00 in the time for a particular stage that stage will be skipped.
BUTTONS

1. **On/Off** – This button is to turn off on or off the power.
2. **Temp** – Pressing this button will allow you to change the temperature. Press this button once quickly and the target temperature setting will start flashing. Then use the +/- buttons to adjust the temperature. The BrewZilla can cycle between Celsius and Fahrenheit by simply pressing and holding down the temp button for more than a few seconds.
3. **Time** – Pressing this button will allow you to change the target time.
4. **Auto/Man** – This button switches between automatic/stages and manual mode.
5. **+/-** - The plus and minus buttons are to increment and decrease the time and temperature settings.
6. **S1-S6** – This button is to cycle between the different stages. This button will only work in automatic mode not manual.
7. **Play/Pause** – This button will play or pause the brewing process. When the pause button is pressed the elements are turned off and the timer will stop.

FACTORY RESET

To reset all the settings on the BrewZilla and clear all the stages the fastest way to do this is by quickly pressing the “+” and “-” buttons at the same time quickly. Both buttons must be pressed at exactly the same time in order for this to work. NOTE: This reset will also reset the calibration figure.

CALIBRATION

This model of BrewZilla has a temperature calibration feature. If you find that the actual temperature on the display is not correct this can be calibrated. This procedure is not normally required and if you are unsure of what you are doing it’s best if you leave the calibration 0. To adjust the calibration settings follow the instructions below:

1. Power up the BrewZilla and press the pause button.
2. Press and hold down the time button until the calibration number is displayed.
3. Adjust the calibration number between -10 and +10. A positive figure will increase the displayed temperature and a negative figure will decrease the displayed temperature. For instance, if your BrewZilla is reading 20°C on the display but it should be reading 25°C then use a calibration figure of positive 5.
4. Press the time button again to return to the home screen.

Note: The calibration figure must be set in Celsius but it will affect the displayed temperature in both Celsius and Fahrenheit.
MANUAL MODE

The BrewZilla is easiest to operate in the manual mode. When in manual mode there are only 4 buttons that you need to use. Temp, positive, negative, and play/pause button. To adjust the temperature you must pause the operation then simply press the temp button and use the positive and negative buttons to adjust the desired target temperature.

AUTO MODE

In the automatic mode there are 6 different stages that can be set into the BrewZilla. These stages can be used to program a stepped mash or alternatively it can be used to set a timer to pre-heat water so your mash in water is already pre-heated when you wake up on your brew day.

Once the play button has been pressed the stages will cycle through from S1 to S6. If any of the stages are set with time being 00:00 then this stage will be skipped. To setup the stages use the following instructions:

1. Press the pause button and put the BrewZilla into Auto mode using the auto/man button.
2. Press the S1-S6 button to select the stage that you want to adjust.
3. Use the temp, time and positive and negative buttons to set the desired temperature and time for that stage.
4. Press the S1-S6 button to move to the next stage and repeat step 3 until all the desired stages are setup.
5. You do not need to use all stages if you do not want to. If you set a stage to 00:00 time this stage will be ignored.
6. Once you finish setting up all the stages use the S1-S6 button to select the stage that you want to start from (normally S1) then push the play button and the stages will begin in sequence.
7. It is possible to jump forward and backward to different stages if desired. To do this just hit the pause button then use the S1-S6 key to select the stage you want to start then hit the play button and this stage will begin.
8. When a particular stage is being played the icon for that particular stage will flash on the display.
9. When all stages are complete the BrewZilla will sound an alarm and it will hold the last set temperature in the stage settings.
SUPPORT

Please join the BrewZilla & RoboBrew Users Group on facebook for recipe help, tips and tricks to operating your BrewZilla. If you need hardware support please contact your nearest BrewZilla distributor.

RECOMMENDED ACCESSORIES

Heavy Duty Silicon Tubing
Silicon tubing is great for transferring the wort from the BrewZilla unit to your fermenter or into a hot cube. We recommend heavy duty silicon tubing with 12mm ID and 18.5mm OD. This tubing has part number KL06873 and can be ordered from any good BrewZilla distributor. This Silicon tubing is plasticiser free so there is no BPA. It’s also suitable for temperatures up to 200C so it’s suitable for the transfer of hot wort.

Unfortunately, silicon tubing is more expensive than vinyl (PVC) tubing however it’s better suited for this application.

StellarClean – Powerful Brewery Wash
Is a buffered alkaline detergent that has been proven to be more than an effective substitute for caustic soda cleaners. Because of its unique formulation of buffers and mild alkalis, it is safe on skin as well as soft metals such as stainless steel, aluminum, and on plastics. StellarClean uses active oxygen to penetrate carbon or protein soils and is not effected by hard water.

StellarClean has been formulated as a C.I.P. cleaner and is very effective in removing protein soils found on brew kettles, fermenters, conditioning tanks, filters and all packaging areas. The concentrations to remove these soils are typically in the 1% range. However, due to soil and water conditions this concentration will vary. To help in hard water areas StellarClean has been formulated with enough chelators to tolerate hard water over 17 grains.
**Stainless Mash Paddle**
These long handled stainless mash paddle. Ideal for removing dough balls and aid in equalising the heat of the mash from stirring.

![Stainless Mash Paddle](image1)

**Part number KL03810**

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**Refractometer with LED light**
A refractometer is a fantastic tool to take instant gravity readings of hot wort. This tool will help you optimise your sparging. If you want to collect the maximum sugars from your malt pipe you can keep sparging in the malt pipe until the wort falling from the underside of the malt pipe reaches 1.010. This tool is significantly better than the hydrometers as they give a faster reading without having to calibrate the reading based on the temperature of the wort. (part number KL07344)

![Refractometer with LED light](image2)

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**Heavy Duty Gloves**
These heavy duty gloves are great for handling chemicals, and also for grabbing items covered in hot wort. They have long sleeves on them and are perfect for brewing with. Part number # KL05289)

![Heavy Duty Gloves](image3)
## Error Codes

In the unlikely instance that you get an error message on the display of the BrewZilla units the follow error codes have been described below:

<table>
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<tr>
<th>Error Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>E1</td>
<td>The temperature probe is loose, not plugged in, has damaged wire, or for some reason the resistance reading is outside the readable range.</td>
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<tr>
<td>E2</td>
<td>This indicates you have a short circuit temperature probe. Normally damages wires or the terminals on the temp probe are short circuited.</td>
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| E3         | This indicates the boil dry protection has been triggered. This can be triggered for several reasons including:  
1. If the BrewZilla has been operated when it has not been filled at least to the minimum liquid fill line. If this happens it will trigger the boil dry error. Please make sure the BrewZilla is always filled to at least the minimum liquid fill line.  
2. The pump has pumped the boiler dry. For instance if you block off the overflow tube that allows excess liquid to return to the boiler this can result in pumping all the liquid into the malt pipe and then the liquid level in the boiler will be too low and cause this error to occur. Always make sure to have enough liquid in the BrewZilla so even when the pump has pumped liquid into your malt pipe you still have enough in the bottom of the boiler to ensure the boil dry protection has not been triggered.  
3. Solids in the boiler such as excessive hops, sugars or other solids. For instance if you pour a kg of sugar into the boiler all at once this will cover the element and act like a blanket. This will allow the element to reach temperatures that are above boiling point and this will result in triggering the boil dry protection. The same thing can happen when excessive hops, and other solids sit and cover up the element. |
| E4         | Temperature overheated. This can occur for similar reasons as the E3 error. Also need to make sure that the vents on the side of the boiler are free and are not covered. The vents need to have good ventilation. |