

Bevi v1.0 Installation Guide

Last Revision: January 2019



Safety Notice

- **CAUTION:** No user servicing/serviceable parts.
- This appliance must be properly installed on a GFCI protected circuit
- Maximum water inlet supply pressure: 87PSI (0.9 MPa)
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- Appliance is only to be installed in locations where it can be overseen by trained personnel.
- The appliance must not be cleaned by a water jet.
- For indoor use only. 10-32°C (50-90°F)
- Appliance shall not be installed in an area where a water jet could be used
- Do not load the shelves with more than 30 lbs (13.6 kg) each.
- Do not store explosive substances such as aerosol cans with a flammable propellant inside the appliance.
- This appliance is climatic class 0: 20°C (68°F), 50% RH, 9.3°C dew point, 7.3 g/kg water vapor mass in dry air.
- Water pipe connections and fixtures directly connected to a potable water supply shall be sized, installed, and maintained in accordance with federal, state, and local codes.
- Product package is single use and must be discarded and product not reused upon removal from the equipment.

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Introduction

This guide is intended to detail the installation procedures for the Bevi Standup v1.0. For information on installing other Bevi models, as well as additional technical documents mentioned here, please visit the Partner Resource site at partners.bevi.co.

Bevi Components

Bevi ships on a pallet that contains the internal components for the machine, as well as the chassis. For detailed information on each component, please refer to the Bevi Hardware Maintenance Guide. In addition to the full chassis and its mounted components, each Bevi pallet includes:

Carbonator with Outflow Lines



Flow Compensator and Line



Filter Outflow Line with Pressure Regulator



Pentek OR 3M Filter



CO₂ Regulator



Drip Tray



AC Power Cords (2)



WiFi Antenna



Bevi Door Keys (2)

⚠ IMPORTANT NOTE: Only use $\frac{3}{8}$ " polyethylene tubing on the Bevi. Do not use $\frac{1}{4}$ " or smaller; it will cause flow problems and machine damage.

Additionally, the following components are not included with the unit by default but are necessary for install:



Flavor Concentrate Boxes (4)



10 lb Aluminum CO₂ Tank



$\frac{3}{8}$ " Polyethylene Tubing



OptConnect™ (optional)

Note: Flavors and OptConnect™ devices must be ordered in advance from the Bevi ordering platform (bevi.handshake.com). CO₂ and tubing may be purchased from your preferred retailer. For help with ordering these components, please email orders@bevi.co.

Before Installation

Site Requirements

Before installing a Bevi unit, it is necessary to conduct a site inspection ensure that the space, plumbing, and electrical requirements are meant.

Specifications for a standup Bevi include:

- Plumbing
 - Minimum inflow rate of 1.3 gal/min (5 L/min) at 50 psi (3.5 Bar)
 - 3/8" outer diameter water line within 50 ft of the unit
- Electrical
 - 110-120 VAC, 60 Hz, 9A max current draw
 - GFCI protected, 3-prong outlet
- Space
 - At least 3" ventilation room behind the machine (the Bevi is 22" deep)

Measuring Water Pressure

In order to confirm that the main water line will have sufficient pressure:

1. Measure the static water pressure, which should be no less than 50 psi.
2. Fully open the main water line valve and dispense 1 L of water, recording the time it takes to fill. If the container fills in 10 seconds or less, then the water supply should be adequate.

For more information, refer to the **Bevi Standup Requirements Guide**.

Tools

When installing Bevi, the following tools will be of use:

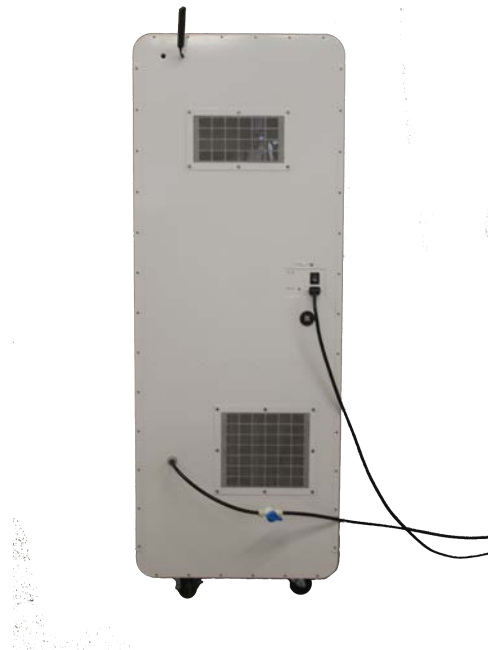
- 10" adjustable wrench
- Flat head screwdriver
- Utility knife
- Tube cutter

- Ratchet wrench with 3/8" and 9/16" socket
- Double sided or foam mounting tape
- Adjustable pliers
- Pitcher or bucket with clear 1L markings
- Paper towels
- Internet-connected mobile device or computer

Installing Bevi

Preparing the Chassis

1. Unlock the door of Bevi and remove the metal brace. Put aside.
2. Place the drip tray on the bottom of refill station and slide into place.
3. Plug the Bevi power adapter into back of Bevi, then into power outlet (do **not** turn on power switch yet).
4. Screw the WiFi antenna into the top left corner on the back of the chassis.
5. Insert the source water line into back of Bevi, making sure that the water inlet valve is turned off (perpendicular to the line).



Rear view with water line, power cord, and antenna

6. If you are installing an OptConnect™, use double sided or foam mounting tape to attach the main unit to the topmost shelf inside the Bevi (above flavor shelf 1), plug in using the internal power outlet, and mount the two antennae 6-8" apart on the back side of the Bevi near the top of the machine.
7. Unscrew the filter housing from the filter head and insert the filter cartridge. Ensure that the black rubber rings are in place on both ends of the cartridge.
8. Screw the filter housing back onto the head. **Hand tighten only; do not overtighten.**
9. Attach the short length of the filter outflow line and pressure regulator to the outlet of the filter housing.
10. Turn the power button on the back of the machine on to ensure power is working. The tablet should turn on and the lights above the the dispense area should illuminate.
11. Turn the power back off.

Preparing the Carbonator

Filling the Ice Bank

1. Insert the filter outflow line to the **Ice Bank Fill** fitting on back of the carbonator.
2. Insert the included CO₂ tubing into the **In CO₂** fitting.
3. Cut a 4' length of $\frac{3}{8}$ " polyethylene tubing and insert into the **In Water** fitting.
4. On the front of the machine, confirm that the thermostat is set to 6. If not, use a flathead screwdriver to turn the dial clockwise to 7, then dial back so that slotted screw is pointing towards 6.



Carbonator thermostat set to 6

5. Open the source water valve to fill the ice bank until water trickles into the overflow tube. Immediately close the water valve.
6. Remove the long length of the filter outlet line from the pressure reducer and secure the end in the top of the overflow tube for future use, if needed.
7. Insert the free end of the **In Water** line into the pressure regulator outflow.

IMPORTANT NOTE: Do not operate Bevi with a thermostat setting above 6. Doing so will cause the carbonator to freeze and can damage the unit.

Installing the Carbonator

1. Lock the wheels of the Bevi so they do not roll and lift the carbonator into the unit, with the overflow tube facing towards the door. This step may be done before filling the ice bank for an easier lift.
2. Attach the AC power cord into the port to the back of the carbonator and plug it into the outlet inside the unit.

Attaching Water Lines

1. Insert the **Out Soda** line into the white flow compensator.
2. Insert the **Out Water** line from the carbonator into still water line, which runs up the side of the Bevi.

3. Ensure that any other lines - an ambient tube and two connected and insulated recirculation lines - are capped. They will not be used.

Installing the CO₂ Tank

1. Insert the free end of the **In CO₂** line into the bottom fitting of the CO₂ regulator.
2. Remove the safety cap from a new CO₂ tank.
3. Screw the CO₂ regulator onto the tank, ensuring that the small nylon washer in the fitting is in place. Tighten the connector nut with an adjustable wrench.
4. Open the valve on the CO₂ tank so gas begins to flow and ensure that the valve on the regulator is open (pointing downwards).
5. Ensure that the pressure on the top gauge (the one closer to the CO₂ tank) reads 87 psi/6 bar. If not, use a flathead screwdriver to adjust the dial.
6. Place the CO₂ tank into the left hand side of the Bevi and set it squarely on top of the metal plate with the regulator facing outwards.
7. Strap the CO₂ tank in by buckling the nylon strap around the tank. Ensure that it is not tightened so much that that the tank tips, or it will not properly record weight.



The CO₂ regulator set to a pressure of 6 bar

Installing Flavors

1. Locate the appropriately labeled box and line (we recommend labelling your lines if they are not already marked).
2. Hold the QDC by placing the index finger of your left hand under the flavor line and the index finger of your right hand under the capped flavor peg on the other side of the QDC.
3. Place your thumbs on the side tabs on top of the QDC and press them outwards, sliding the center back until it fully disengages and clicks twice.



Proper holding technique for a QDC

4. Slide the connector sideways and off the spout of the bag. The old box can now be removed and discarded.
5. Open a new box of flavor concentrate by pressing in on the perforated area. The label should be inspected to confirm flavor number and ensure it is not expired.
6. Pull the spout out of the opening and ensure that the bag is not bunched up and that concentrate can freely get to the spout.
7. Remove the cap from the spout. This can be discarded or kept with the box to recap the bag upon removal. Ensure that the spout faces upwards when doing this to avoid spills.
8. Place the new box in the appropriate area, checking that the spout is facing outwards and hangs down slightly so concentrate can freely flow

without creating air bubbles. For countertop models where the concentrate may not have dedicated shelves, also ensure that the boxes and lines are not interfering with or crushing each other.

9. Slide the QDC over the spout and, holding it in the same manner as in Step 2, press the center in with your thumbs until it clicks twice.

Checking the Lines

1. Open all water valves, including the main line from the wall.
2. Turn on the carbonator and Bevi by flipping the power switches.
3. Check that water is flowing properly without leaking and that the lights and tablet power are on. It should only take 30 seconds or so for the touchscreen to boot up.

Initializing the Service Panel

The service panel can be accessed from the main tablet touchscreen. To enter the panel:

1. Press the **Ingredients** button on the bottom of the touchscreen.
2. Select any flavor to bring up the ingredients list view.
3. Either press and hold the **X** in the top right corner for approximately 5-6 seconds, or tap the bottom of the ingredients list window repeatedly until the panel appears.

When you enter the service panel, it is important to navigate to the **Advanced** tab to copy down the Machine ID and Touchscreen ID (the Machine ID can also be found on a sticker on the back of the Bevi). You will need this when [Creating the Machine Page](#).

The screenshot displays the Bevi Service Panel interface. At the top, there is a navigation bar with a back arrow, 'Service Panel', 'Help', and 'Advanced' tabs. Below this, the device ID 'a9ecd353ab559b2e' is shown next to an edit icon. A 'Start Service' button is prominently displayed in a green box. The main area is divided into several sections:

- Connected:** Shows 'Type: WIFI' with 'CHANGE' and 'UPDATE SOFTWARE' buttons.
- 64 Cucumber (Flavor 1):** 3 gal, 11.1. Remaining: N/A. Expected date: N/A. Includes 'NO ACTION', 'RESTOCK', and 'PRIME' buttons, along with a quantity selector set to 8.
- 47 Grapefruit (Flavor 2):** 1 gal, 35.1. Remaining: N/A. Expected date: N/A. Includes 'NO ACTION', 'RESTOCK', and 'PRIME' buttons, along with a quality selector set to HIGH.
- 77 Pineapple (Flavor 3):** 1 gal, 35.1. Remaining: N/A. Expected date: N/A. Includes 'NO ACTION', 'RESTOCK', and 'PRIME' buttons, along with a quality selector set to HIGH.
- 76 Strawberry Lemongrass (Flavor 4):** 1 gal, 35.1. Remaining: N/A. Expected date: N/A. Includes 'NO ACTION', 'RESTOCK', and 'PRIME' buttons, along with a quality selector set to HIGH.
- CO2:** Tank size: Unknown. Remaining: N/A. Expected date: N/A. Includes 'NO ACTION' and 'RESTOCK' buttons.
- Filter:** Filter Type: Unknown. Remaining: N/A. Expected date: N/A. Includes 'NO ACTION', 'RESTOCK', 'CHECK FLOWRATE', and 'CHANGE THRESHOLD' buttons.

At the bottom, there are tabs for 'Flavor Request', 'Retrofits', and 'Other'. A 'REQUEST NEW FLAVORS' button is visible under the 'Flavor Request' tab.

The Bevi Service Panel

Connecting to the Internet

To connect to a network:

1. Press the **Change** button on the top of the service panel.
2. Select the appropriate connection type from the three options.

- a. **Connect Wirelessly:** Turn on the WiFi with the slider at top right of the screen. Select the appropriate network and enter the password if necessary.
 - b. **Connect via Ethernet:** The ethernet port on the standup is located beneath the power button on the back of the machine. Simply plug the cable into the port and it should connect automatically. In newer countertop models, the ethernet cable hangs from the bottom of the head unit and will thread down through the 4" hole in the countertop. An extension cable can be used if it does not reach the ethernet jack.
 - c. **Connect via OptConnect™:** After installing and initializing the OptConnect™, enter the Serial Number in the box and press **Done**.
3. Return to the Service Panel main page and check that the internet is properly connected. The icon on the left of the network field should be green, with a "Connected" tag and the connection type listed.

Initial Stocking

Flavors

For each flavor, perform the following steps to initialize:

1. Press the **Restock** button to bring up the flavor list.
2. Type in the two digit ID number found on the flavor box, and select the appropriate flavor for the new concentrate.

Note: Make sure to go by the number on the box, not just the flavor name. Differently numbered flavors can have differing concentration dispense ratios.

3. Place a bucket or large container under the nozzle and prime the line for at least 15 seconds, or until concentrate freely flows. You can press and hold the **Prime** button, or double tap it to let it auto pour. Tap it again to stop the flow.

CO₂

To initialize the CO₂, press **Restock** and select 5lb or 10lb (we recommend 10lb tanks).

Creating the Machine Page

The last step to registering the machine is to create a new unit on the dashboard. To create a new machine page, you will need a smartphone or computer (recommended).

1. Navigate to well.bevi.co and log in with your registered Google account (please contact Bevi Support if you do not have an account).
2. On the **Inventory** page, press the **+ New Unit** button.
3. Fill in the client's company and the desired unit name and click **Create Unit**.
4. On the new page, fill in the following details:
 - a. Company and client contact information
 - b. Machine, Tablet, and optional OptConnect™ IDs
5. If the machine has been properly connected to the internet, the page should update itself within a few minutes with the current inventory.

Final Steps

Purging the Carbonator

To ensure that the CO₂ and water mix properly, perform an initial carbonator purge.

1. Turn off the carbonator then stop the main water flow.
2. Dispense sparkling water until the reservoir is empty and only CO₂ dispenses.
3. Turn the water and carbonator back on to refill reservoir. Ensure that the water is turned on first.
4. Test the sparkling water and check the pressure gauge.

Flushing the Filter

It is important whenever a filter is changed to flush it first. To flush the filter:

1. Remove the water line from the outlet of the filter head.
2. Attach a small length of tube to the outlet, and let the free end hang down into a bucket.

3. Dispense at least 3L of plain, still water into the bucket, discarding it periodically until the water flows clear.
4. Remove the length of tube, reattach the outlet line, and dispense another liter or so of water through the machine to ensure a clean flow throughout.

Testing Water

Test each type of water - still, sparkling, and each flavor - testing for the following:

- Cool temperature (it will not be fully chilled yet)
- Correct, noticeable, and enjoyable flavor
- Sufficient CO₂ concentration
- Consistent flow

If any of these seem off, consult the Bevi Hardware Guide or contact Bevi Support at support@bevi.co.

Enter Incubation

⚠ IMPORTANT NOTE: Incubation is a mandatory part of the installation process. Without it, the Bevi temperature will be too high to properly operate. Do not skip this step.

1. Once all components are properly connected and water is flowing properly, close and lock the door of the Bevi.
2. In the service panel, press the **Start Incubation** button on the Other tab at the bottom of the page.
3. Select the incubation time. We recommend 3 hours, but it can be set lower if the carbonator has already been running for some time.
4. A screensaver with a countdown will appear. If you need to exit the screensaver and return to the control panel, tap repeatedly between the hours and minutes on the screen.

Bevi Support

Online: partners.bevi.co

Phone: 866-704-2384

Email: support@bevi.co