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# [Guide] Removal and Replacement Guide

## Bevi Standup 2.0 - Chiller

### Overview

*This document assumes that you have troubleshooted a problem to the Chiller level. Below you will find procedures on how to remove, repair or replace the V2 Chiller unit*

### Frequently Asked Questions

*Q: What is the Chiller and what does it do?*

*The Chiller serves two purposes. One being that it takes inbound source water that is not to be heated and chills it to ~34 degrees to allow for chilled water to be dispensed from the Bevi. The other is to carbonate still water and convert it to sparkling water on demand if requested by a Bevi User.*

*Q: What are the components of the V2 Chiller?*

*Main components of the Chiller are :*

- The Compressor*
- The Chiller*
- The Chiller/Icebank*
- Recirculation Pump*
- Level Sensor*
- Ice Sensor/Temperature Sensor*
- Condenser fan*
- Drink Coil*

*Q: Do I RMA a Chiller for a V2 the same way as a V1.5?*

*Yes - upon determining that the full Chiller needs to be replaced, you can place a call to Bevi support to initiate an RMA for a full Chiller.*

***NOTE: Several components are easily replaced and these replacements can be performed in the field.***

## Questions Answered in this Document

*How to remove and replace a Bevi V2 Chiller*

### Required Tools & Materials

- *You will need the access codes to enter the machine and service panel*
- *Number 2 and Number 3 phillips screwdriver*
- *Bucket (to drain line pressure)*

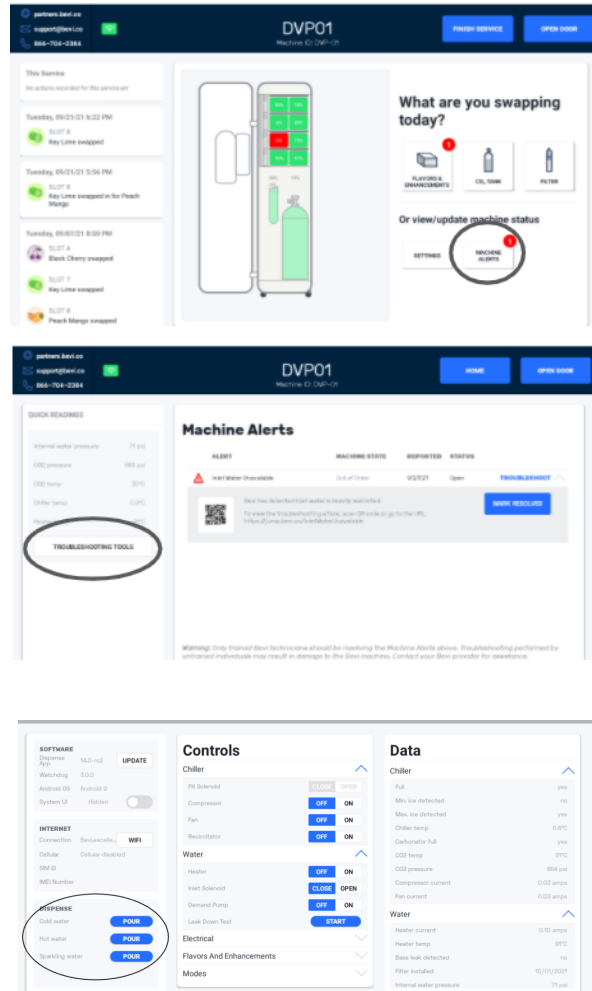
### Task 1: Open the Bevi Door and Relieve Line Pressure by draining water

To enable work on a Chiller, you must first relieve line pressure to release the pressure to the John Guest fittings that are connected to the Bevi V2 Chiller. To do this perform the following steps:

- 1) Turn off the supply line from the Buffer tank.
  - a) From the front of the machine reach into the access hole and move the lever on the buffer tank toward the back of the machine.



- 2) Turn the supply line water (on the back of the machine) off.
- 3) Using the “Troubleshooting Tools” in the Machine Alert section of the Service panel, Navigate to “Dispense” and select “Pour” to dispense all cold and sparkling water into the bucket until there is no longer water coming out of the dispense area. (see below to learn how to access the controls)

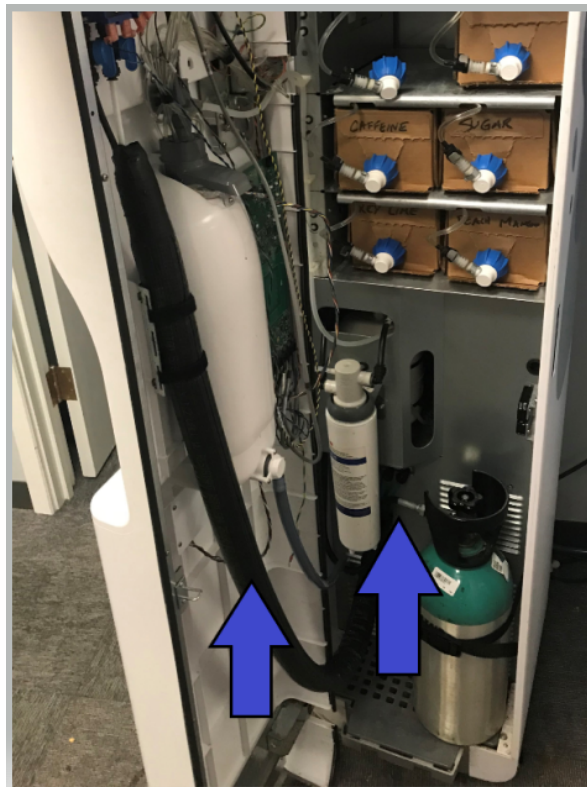


**NOTE: If the Chiller is frozen there may be very little to no water**

- 4) Turn off CO2 by turning the shut off valve clockwise until shut off.
- 5) Using the Troubleshooting Tools, dispense sparkling water until gas no longer audibly flows from the nozzle.
- 6) Turn off the machine.(Power is on the back of the machine)

## Task 2: Remove the trunk line to allow the Chiller to be pulled out

- 1) The trunk line is the big black hose connected to the door (at the top) and the Chiller (at the bottom)
- 2) Remove the CO2 Tank for easier access - not required
- 3) Remove the filter by turning it counterclockwise
- 4) Disconnect the 4 bottom connections that are behind the filter to allow the Chiller to be pulled out



Trunk line (black hose) and connections to the Chiller (behind filter)



- 5) Remove the two Phillips head Chiller screws on the front machine panel with a number 2 Phillips head screwdriver.



**\*\*NOTE: If you do not dispense water and remove the trunk line connections as mentioned in Task 1 the source waterline will be pressurized and will spray water if disconnected while pressurized.**

### **Task 3: Pull the Bevi from the wall and remove the back middle and lower panels**

- 1) With a Number 2 Phillips screwdriver remove the middle and lower back panels of the Bevi. Be sure to loosen 8 screws until the panel detaches from the unit **(Pro-Tip taking the screws all the way out will make it harder to put the panels back on.)** If you take them out, set them aside in order to put the panels back on when you are finished

### **Task 4: Disconnect the 3 water inlets to the Chiller Chiller**

After the back panels have been removed, disconnect the three water inlets to the Chiller. These include: CO2 in, Ice Bank Fill, and Source water line\*\*

**\*\*NOTE: If you did not dispense water and remove the trunk line connections as mentioned in Task 1 the source waterline will be pressurized and will spray water if disconnected while pressurized.**



### **Task 5: Remove the Chiller from the Bevi**

- 1) Using a Number 3 screwdriver, remove the two screws in the rear/bottom of the chiller. (see below)



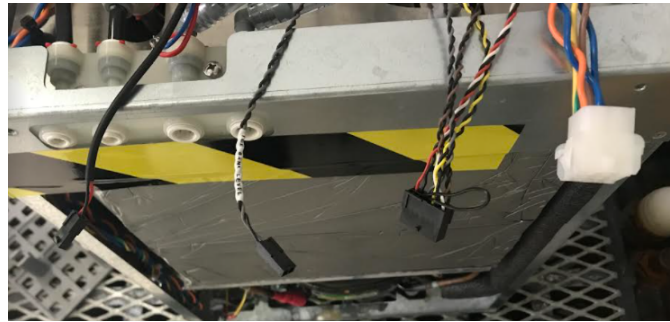


- 2) Once the two screws are removed, the chiller is ready to be slid out. Grabbing the Top and middle of the Chiller - Please only slide out **half way** as there are electrical connections that will need to be unplugged.



- 3) Disconnect the a) Recirculation Cable b) Power Cable and c) Sensor Cable **BEFORE** you slide the Chiller any further.





- 4) Remove the Chiller by sliding the Chiller out and placing it on the floor.  
(Pro-tip - empty the icebank before removing, it will make things a lot easier  
you can use a portable pump to remove the water from the coil section)  
**Warning - Weight Warning!!! - the Chiller is full of water and has an ice block and will weigh over 60lbs. Use the handles on the side to slide out and place on the floor.**

## Task 6: Installing the Chiller back into the Bevi

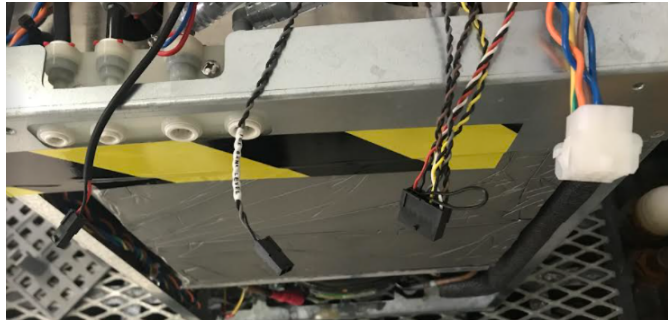
1. Slide the Chiller half way back into the Bevi



**Warning - Weight Warning!!! - Use appropriate lifting techniques when moving the Bevi chiller and be sure to utilize the handles on the side to slide out and place on the floor.**

2. Reconnect the following

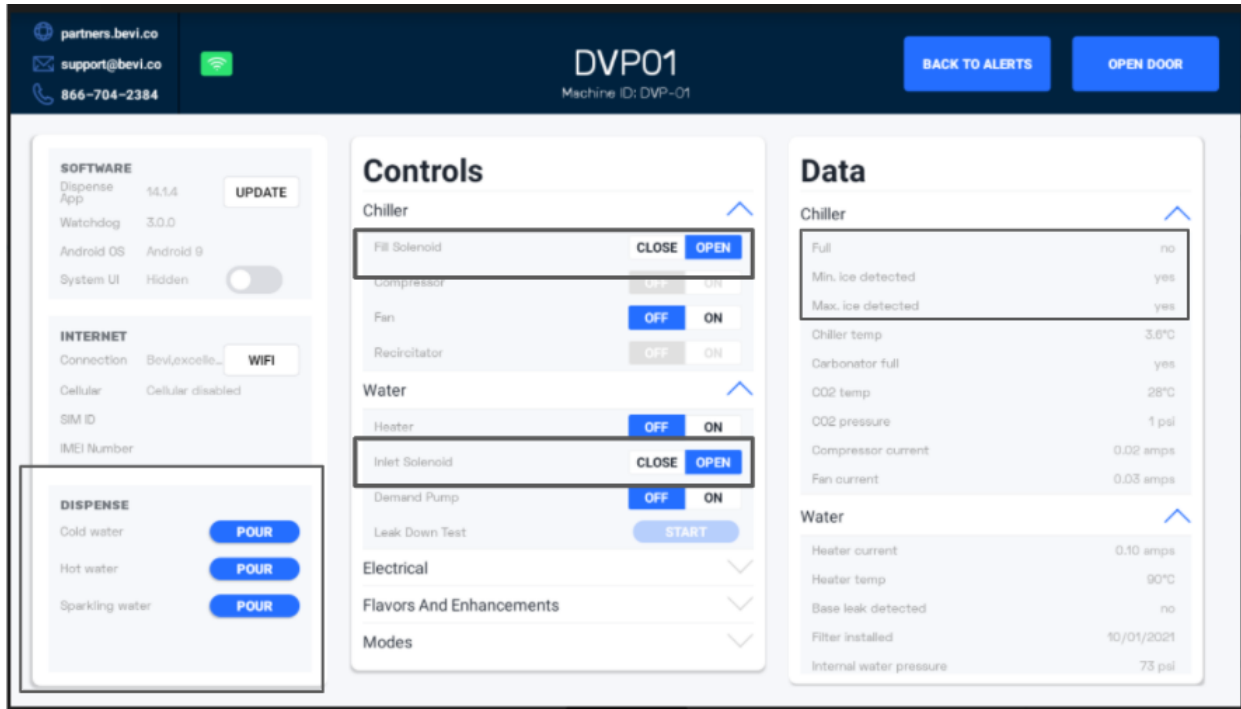
- a) Recirculation Cable,
- b) Power Cable
- c) Sensor Cable



- 5) Grabbing the Top and middle of the Chiller, slide the Chiller back into place
- 6) Using a Number 2 screwdriver, replace the two screws on the inner panel behind the filter & CO2 tank
- 7) Using a Number 3 screwdriver, replace the two screws at the bottom of the Chiller
- 8) Reconnect the three water inlets to the Chiller. These include: CO2 in, Ice Bank Fill, and Source water line

**Note - the three lines are different sizes**

- 9) Reconnect the Trunkline to the Chiller
- 10) Reconnect and turn on CO2
- 11) Under Dispense section, select and "Pour" SPARKLING for a few seconds to flow CO2 into the system and out nozzle

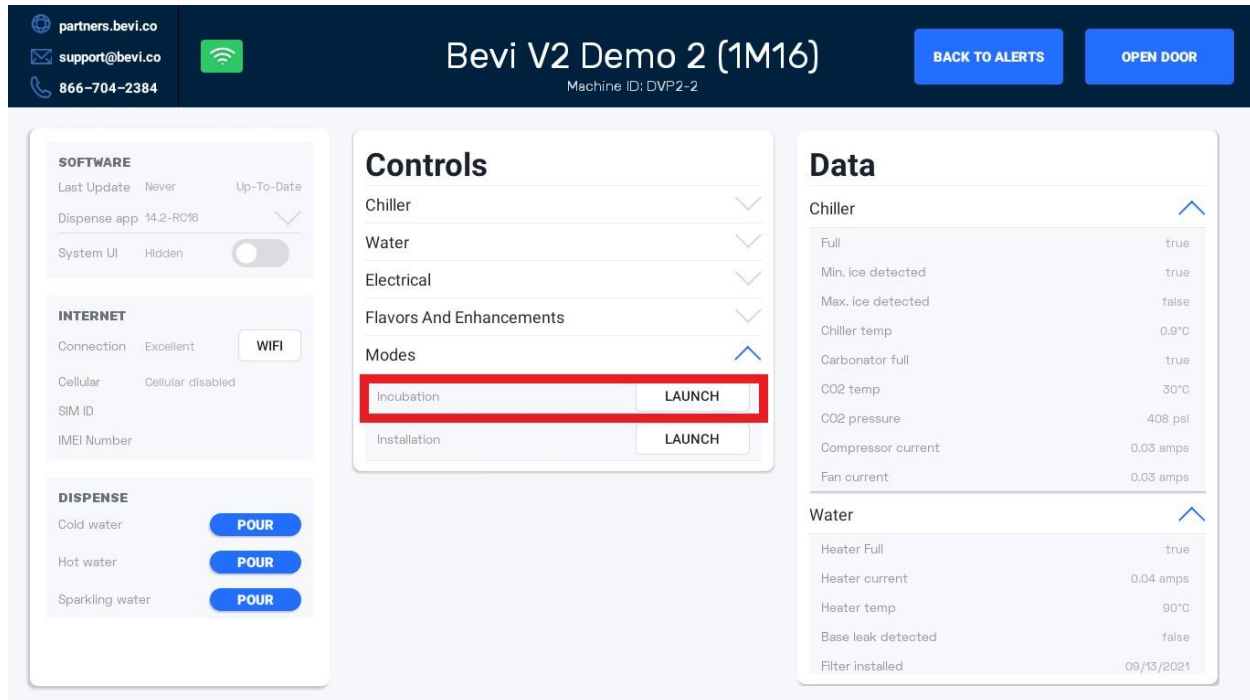


- 12) Turn on source water and buffer tank
- 13) Ensure that Ice Bank has been filled - by looking in the DATA section of the Troubleshooting Tools and looking for "Yes" in the Chiller/ Full line - see below
  - a) 13a. Press "Open Inlet solenoid" AND the "FILL Solenoid " to the "ON" position then standby until chiller fill goes from "no" to "yes"
- 14) Dispense SPARKLING for 5 seconds, then wait 30 seconds (demand pump will run attempting to fill carbonation tank, then shut off). Repeat the 5-second dispense + 30 second wait until the Carbonator Fill reads "Yes" (this should take 5 - 10 cycles)
- 15) Dispense COLD water purge any trapped air
- 16) Dispense a drink to ensure all is working properly
- 17) Replace Back Panels

## Task 7: Put the unit in incubation mode

**Note: Incubation mode allows the chiller to cool the water to the correct temperature before the machine can be used.**

1. From the troubleshooting tools, under "Controls", select "Modes"
2. On the line item "Incubation" press "Launch"



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Bevi V2 Demo 2 (1M16)  
Machine ID: DVP2-2

BACK TO ALERTS OPEN DOOR

**SOFTWARE**  
Last Update Never Up-To-Date  
Dispense app 14.2-RC18  
System UI Hidden

**INTERNET**  
Connection Excellent WIFI  
Cellular Cellular disabled  
SIM ID  
IMEI Number

**DISPENSE**  
Cold water POUR  
Hot water POUR  
Sparkling water POUR

**Controls**

Chiller  
Water  
Electrical  
Flavors And Enhancements  
Modes  
Incubation LAUNCH  
Installation LAUNCH

**Data**

**Chiller**

Full	true
Min. ice detected	true
Max. ice detected	false
Chiller temp	0.9°C
Carbonator full	true
CO2 temp	30°C
CO2 pressure	408 psi
Compressor current	0.03 amps
Fan current	0.03 amps

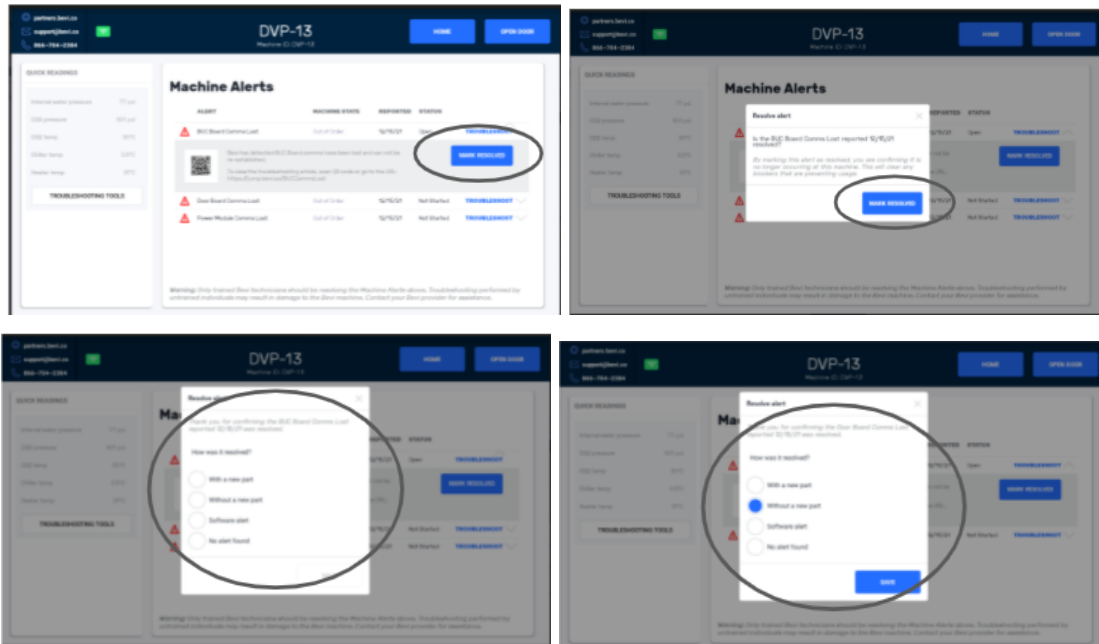
**Water**

Heater Full	true
Heater current	0.04 amps
Heater temp	80°C
Base leak detected	false
Filter installed	09/13/2021

## Make sure to log your service to clear the Alert

It is important to resolve the machine alert in order to clear the Alert and return the machine to normal operation. After you have performed the service required, navigate to the original alert and select “Mark Resolved”. From there, resolve the alert by following the instructions and marking the service with the appropriate action. (see screens below) Marking it correctly will help us eliminate this issue in the future, so please be accurate with your description.

If you are unable to resolve the issue, leave the alert open, otherwise if you resolve the issue WITHOUT fixing it, the alert will return and disable the machine.



Should you need to replace any of the items above, please see the appropriate Remove and Replace documentation located at [partners.bevi.co](https://partners.bevi.co)

For Reference

