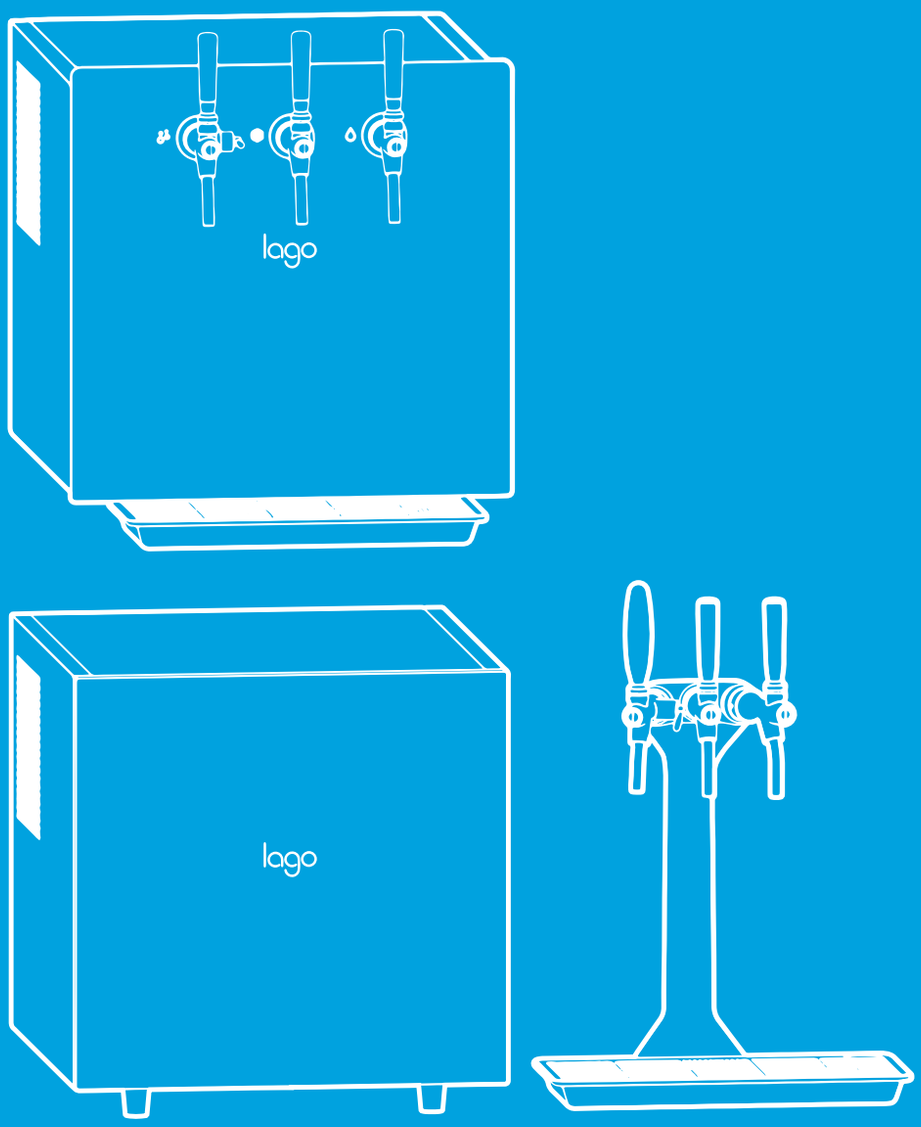
lago®



Installation Manual

Model Nos.: CLCTPOU3TS, CLUSPOU3TS

3-Tap Sparkling Countertop Dispenser
3-Tap Dispensing Tower & Undersink Sparkling Chiller

Table of Contents

Safety Information

WARNING: Before installing and using this appliance, you must read this entire manual before assembling, installing, and operating.

WARNING: Failure to use this appliance properly can cause personal injury. When installing and operating appliance, aways exercise basic safety precautions, including the following:

- This unit must be connected to a 115V AC power supply. Operating voltage is listed on the appliance data label.
- The unit must be protected by a properly installed circuit breaker. Verify the electrical current is correct for the power of the unit, which is listed on the appliance data label.
- This appliance must be grounded.
- When positioning the appliance, ensure the supply cord is not trapped or damaged.
- If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or service agent.
- Do not locate multiple portable socket-outlets or portable power supplies at the rear of the appliance.
- To avoid electrical shock, always unplug the unit from the electrical outlet before servicing.
- To avoid a hazard due to instability of the appliance, it must be fixed in accordance with the instructions.
- Do not store explosive substances such as aerosol cans with flammable propellants in this appliance.
- CO2 is a high-pressure gas. Use caution when moving or making connections.
- This appliance contains fluorinated greenhouse gases covered by the Kyoto Protocol. The appliance is hermetically sealed. Gas weight is indicated on the appliance data label.
- All packaging materials (e.g., plastic bags, foam, etc.) should never be left in reach of small children. These items are potentially hazardous and may cause severe injury or death.
- Children should be supervised to ensure they do not play with this appliance.
- Cleaning and user maintenance must not be performed by children without proper supervision.

Important Requirements

- Use only original and new parts to guarantee the reliability, optimization, and performance of the appliance.
- Do not expose the CO2 cylinder to direct sunlight, sources of heat, or temperatures below 32 °F (0 °C).
- Always keep the CO2 cylinder in a vertical position while in use and secure properly with a chain or strap.
- To properly carbonate water, make sure that CO2 cylinder valve is completely open.
- Use only food-grade CO2 (UN1013) gas.
- Adjust the CO2 pressure regulator to a target of 60 PSI (4.1 bar), with a maximum pressure of 65 PSI (4.5 bar)
- Do not use corrosive or acidic products or metal brushes to clean the appliance.
- Do not wash the appliance using high-pressure water.
- Connect to a water supply with a minimum pressure of 29 PSI (2.0 bar) and maximum pressure of 51 PSI (3.5 bar).

Intended Use

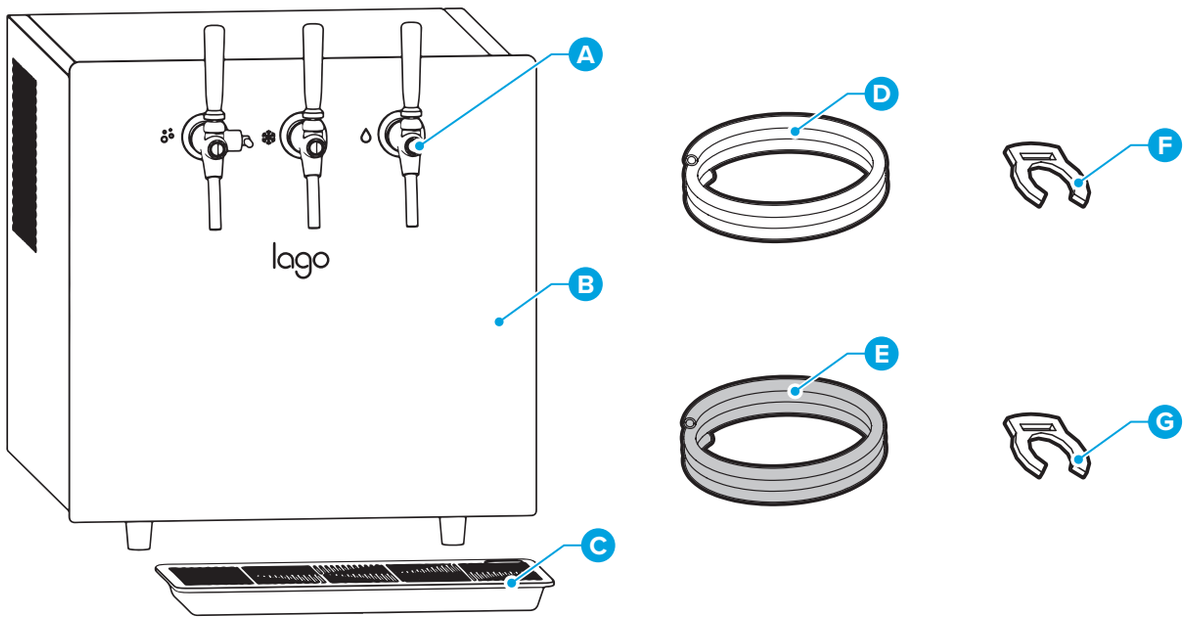
This appliance can be used by children aged 8 years and older and persons with reduced physical, sensory, or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

This appliance is intended to be used in household and similar applications such as:

- Staff kitchen areas in shops, offices, and other working environments.
- Hotels, motels, bed-and-breakfasts, and other residential-type environments.
- Catering and similar non-retail applications.

Package Contents

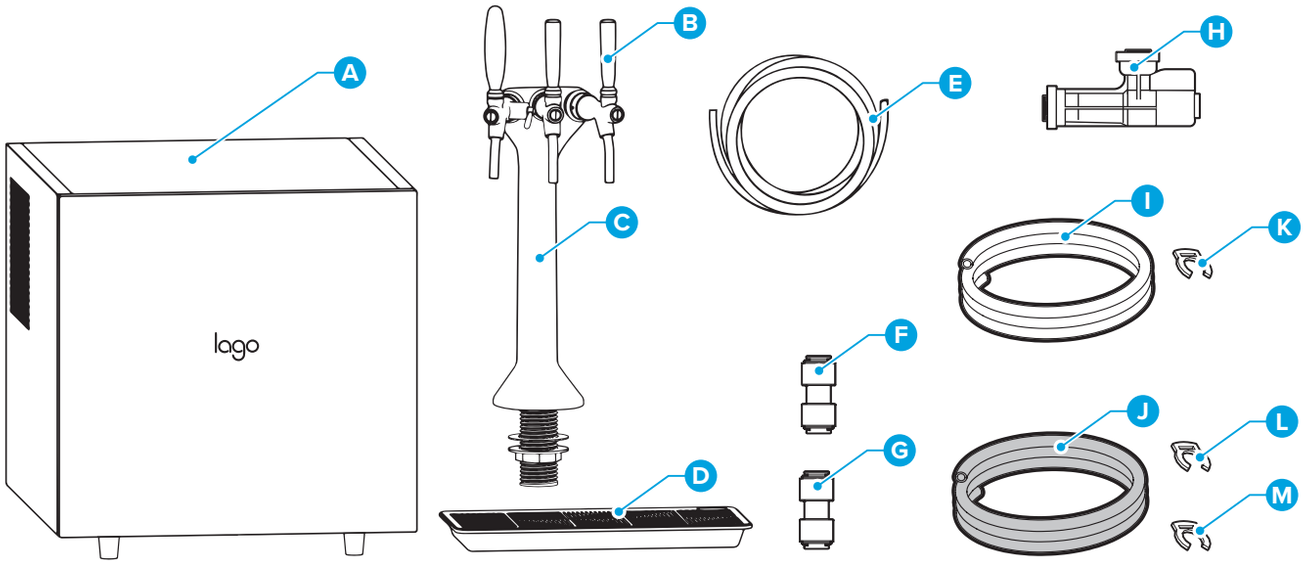
3-Tap Sparkling Countertop Dispenser (CLCTPOU3TS)



Part	Description
A	Tap (x3)
B	Countertop unit
C	Drip tray
D	1/4" O.D. PE tubing (2mx1)

Part	Description
E	3/8" O.D. PE tubing (2mx1)
F	1/4" Locking clip (x2)
G	3/8" Locking clip (x2)

3-Tap Dispensing Tower & Undersink Sparkling Chiller (CLUSPOU3TS)

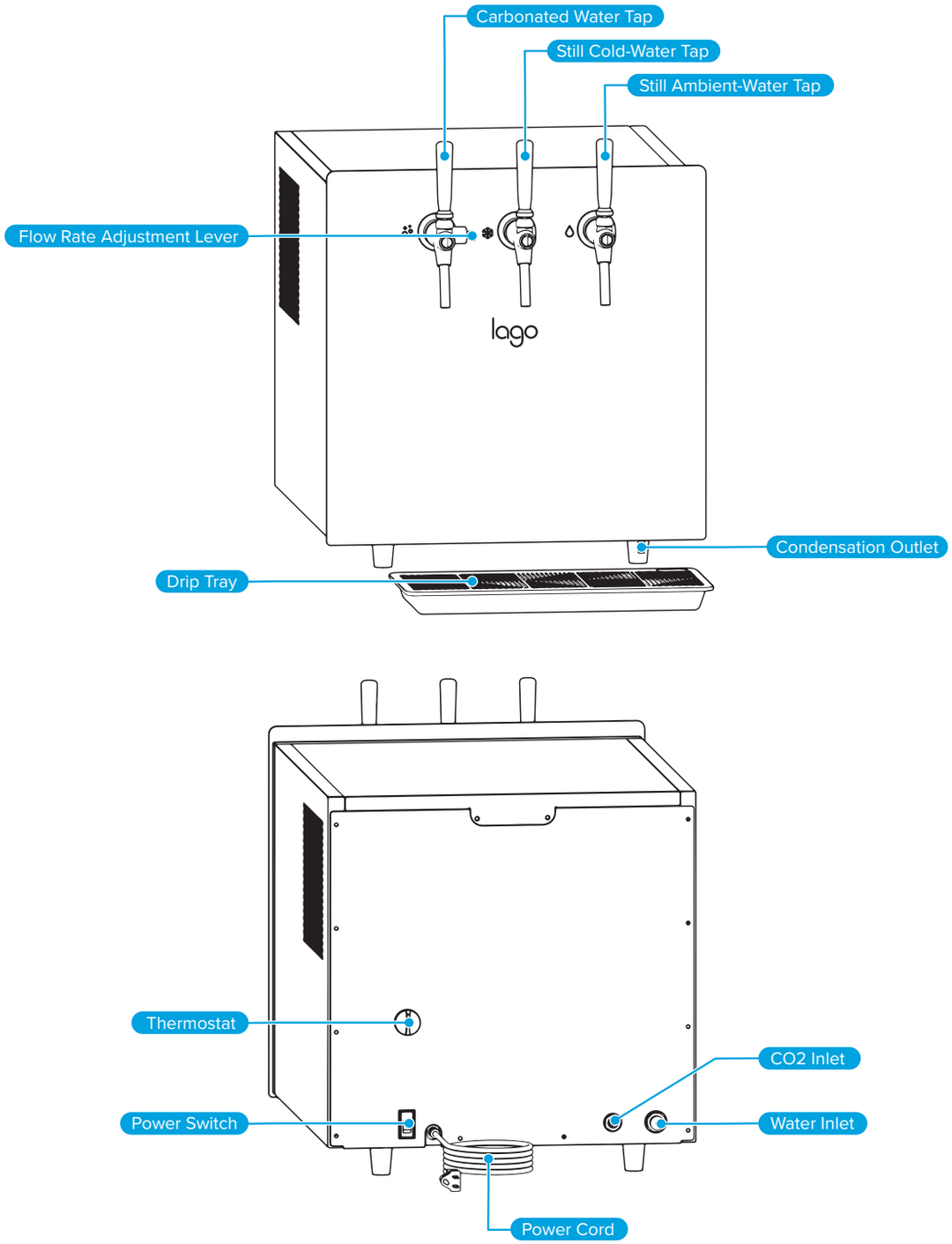


Part	Description
A	Undersink chiller
B	Tap (x3)
C	Dispensing tower w/ washer and locking nut
D	Drip tray
E	Tubing insulation
F	1/4" to 5/16" Quick connect (x1)
G	3/8" to 5/16” Quick connect (x2)

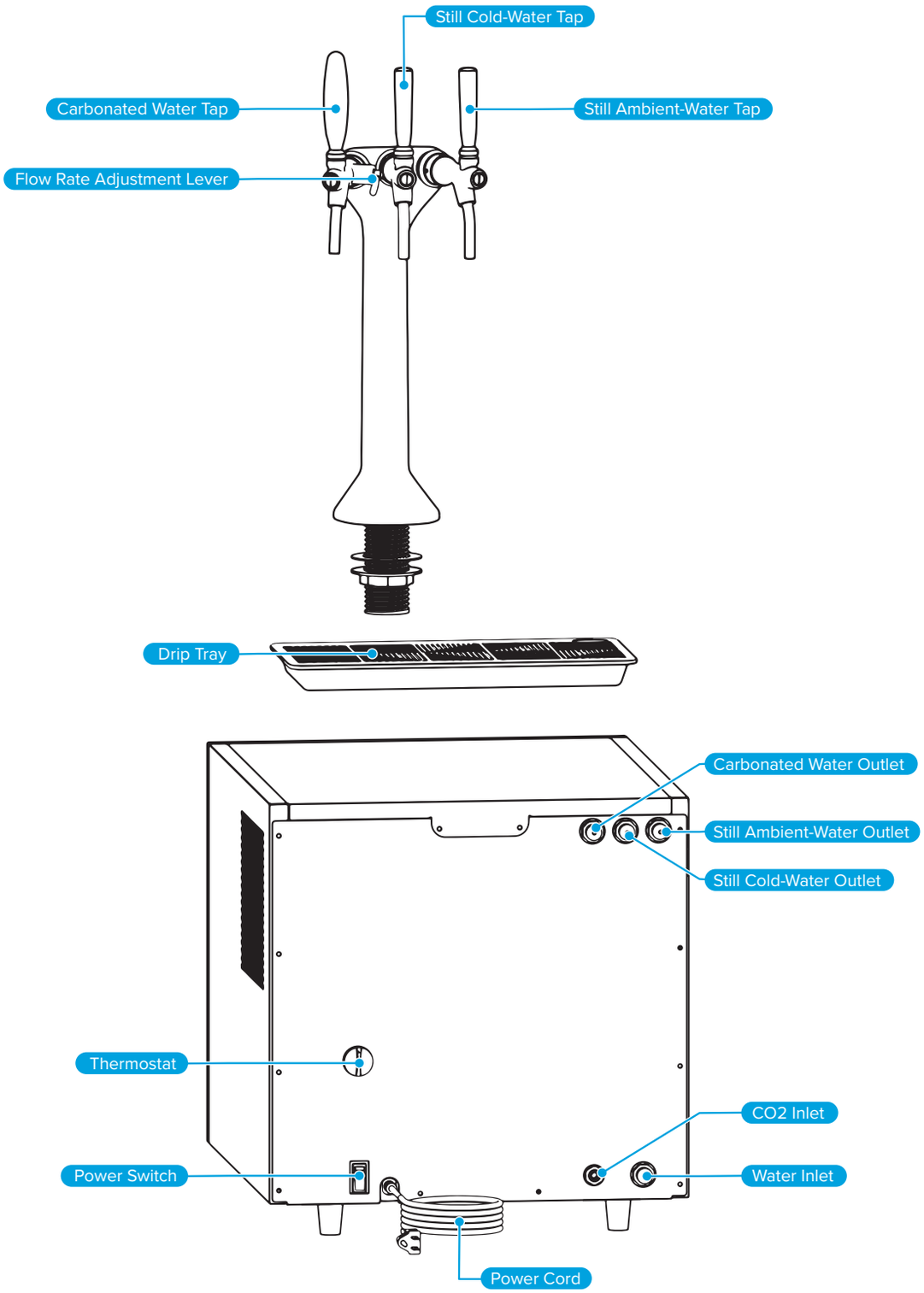
Part	Description
H	1/4" Flow compensator (x1)
I	1/4" O.D. PE tubing (2mx2)
J	3/8" O.D. PE tubing (2mx2)
K	1/4" Locking clip (x4)
L	3/8" Locking clip (x6)
M	5/16" Locking clip (x3)

Product Features

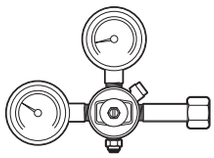
3-Tap Sparkling Countertop Dispenser (CLCTPOU3TS)



3-Tap Dispensing Tower & Undersink Sparkling Chiller (CLUSPOU3TS)

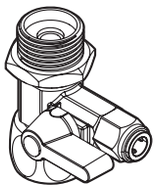


Tools and Materials Needed for Installation for Both Units

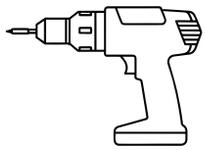


CO2 pressure regulator

CO2 cylinder



Feedwater valve with 3/8” connector



Power drill
(undersink chiller only)

Adjustable wrench

Crosshead screwdriver

Tube cutter or knife

6mm Allen wrench
(undersink chiller only)

Operational Specifications

You must use the system with the following operational parameters to ensure safe, optimal performance.

Model No.	CLCTPOU3TS	CLUSPOU3TS
Rated Voltage / Frequency	115V~60Hz	115V~60Hz
Rated Power	350W	350W
Compressor Power	1/4 HP	1/4 HP
Rated Current	3.0 A	3.0 A
Ambient Operating Temperature	Minimum: 40 °F (4.5 °C) Maximum: 104 °F (40 °C)	Minimum: 40 °F (4.5 °C) Maximum: 104 °F (40 °C)
Inlet Water Pressure* *If your inlet water pressure does not meet minimum pressure requirement, you may need an expansion tank.	Minimum: 29 PSI (2.0 bar) Maximum: 51 PSI (3.5 bar)	Minimum: 29 PSI (2.0 bar) Maximum: 51 PSI (3.5 bar)
CO2* Pressure Input *Use food-grade CO2 (UN1013) only.	Target: 60 PSI (4.1 bar) Maximum: 65 PSI (4.5 bar)	Target: 60 PSI (4.1 bar) Maximum: 65 PSI (4.5 bar)

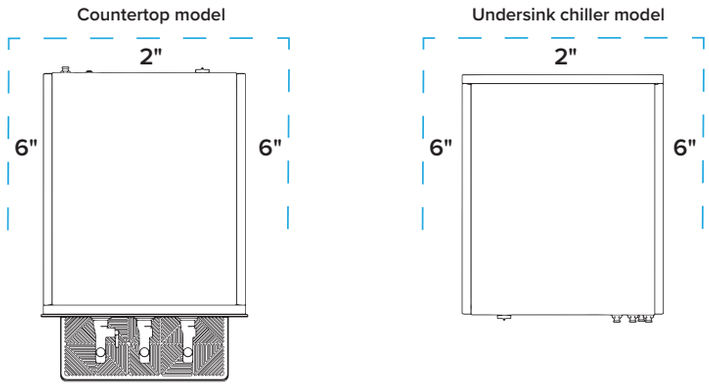
Technical Specifications

Model No.	CLCTPOU3TS	CLUSPOU3TS
Cold Water Dispensing Temperature	39.2~53.6 °F (4~12 °C)	41~50 °F (5~10 °C)
Cold Water Output	90 L/h	90 L/h
Sparkling Water Output	90 L/h	90 L/h
Cooling Technology	Ice Bank	Ice Bank
Refrigerant/Qty	R290/65g	R290/65g
Carbonation Value	6–8 g/L	6–8 g/L
Ice Bank Volume	18 L	18 L
Product Dimensions (WxHxD)	17.6 x 17.9 x 21 in. (44.7 x 45.47 x 53.34 cm) Depth (D) with drip tray: 26.4 in. (67.06 cm) Height (H) with taps: 19.9 in. (50.55 cm)	17.6 x 17.9 x 21 in. (44.7 x 45.47 x 53.34 cm) Depth (D) with drip tray: 26.4 in. (67.06 cm) Height (H) with taps: 19.9 in. (50.55 cm)
Net Weight	Empty: 75 lb. (34.2 kg) With water: 112 lb. (50.8 kg)	Empty: 75 lb. (34.2 kg) With water: 112 lb. (50.8 kg)
A-Weighted Sound Pressure Level	≤70 dB	≤70 dB

Installation

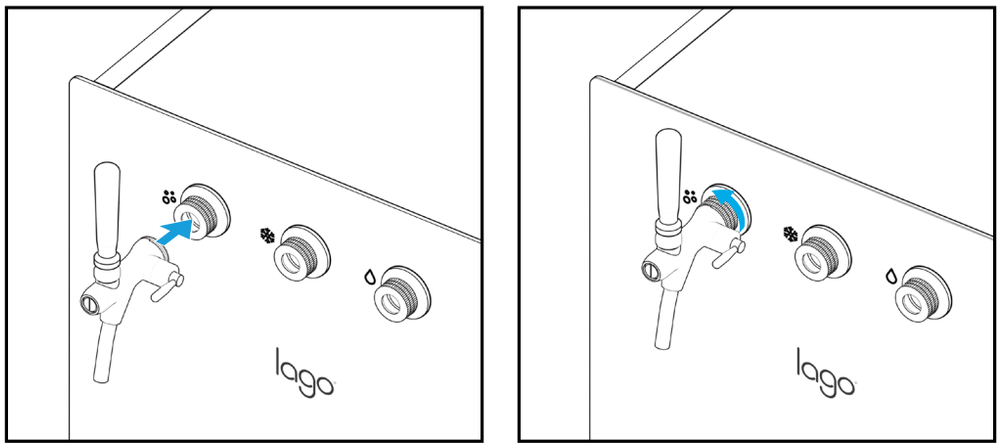
Determine Installation Location

1. Locate appliance on a hard, level surface that can safely support 112 lb. (50.8 kg). Location must be far from heat sources and have adequate ventilation.
2. Locate appliance within 6.6 ft. (2 m) of water supply and 6 ft. (1.8 m) of power supply.
3. Maintain at least 6 in. (15.2 cm) of clearance on both sides of appliance, and 2 in. (5.1 cm) at back of appliance for proper ventilation.
4. FOR UNDERSINK CHILLER UNIT: Provide ventilated cabinet doors and sides to ensure proper air circulation and ventilation for evaporator coil and exhaust vent. Without proper ventilation the unit will not perform properly and will shorten the life of the compressor.
5. Allow a minimum of 14 in. (35.6 cm) above the unit to allow for the removal of the top for water-level checks during routine maintenance.



Countertop Model - Tap Installation

1. Locate the 3 taps in the top pad of the packaging.
2. With the appliance facing you and starting on the left, install the carbonated water tap with flow adjustment lever.
3. Ensure tap is aligned vertically. Fully push the tap into the fitting.
4. To secure tap, screw the front panel fitting to the tap. To tighten connection, rotate chrome ring on front panel fitting counterclockwise. The tap should have a tight fit with the front panel fitting.
5. Repeat this process with the still cold-water tap, which should be installed in the center front panel fitting.
6. Repeat this process with the still ambient-water tap, which should be installed in the right front panel fitting.



Quick-Connect Fitting Connection Instructions

Connections between the pressure regulator, filtration unit, and water refrigeration unit are accomplished using PE tubing and push-together quick-connect fittings.

Prepare PE Tubing

1. Cleanly cut tube so that ends are straight up and down and able to sit flush against the back of the fitting. Do not deform or distort the tubing so that its circumference is no longer perfectly round.
2. Ensure outer surface of tube end is completely smooth, free from marks, scratches, or nicks.
3. Avoid sharp changes in direction when routing the tubing. Sharp turns cause the tubing to flex and distort, reducing flow capacity.

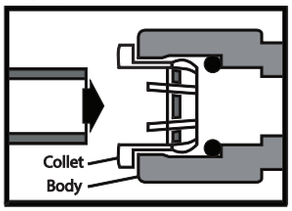
Quick-Connect Fittings

Fittings consist of two parts: a body and a colored collet. (Fig. 1)

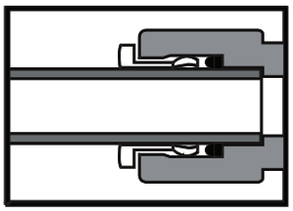
1. To install tube, insert it into the collet and push it in until it is seated firmly at the back of the fitting. (Fig. 2)
2. To remove tube, press the collet against the body while pulling the tube out. (Fig. 3)

   NOTE: Appliance is shipped with a safety plug in each external fitting. Remove plugs in the same manner as the tube.

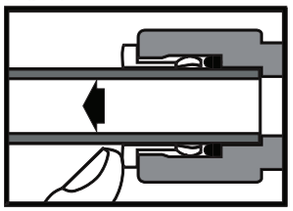
(Fig. 1)



(Fig. 2)



(Fig. 3)

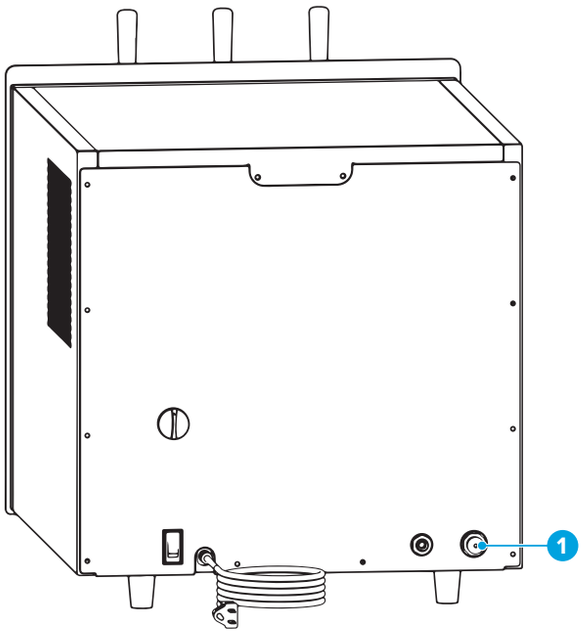


Connect to Water Source

1. You must use a new set of connectors (feedwater adapter, fittings, washers, and tubing) to connect the water dispenser to the cold water supply system. Do not use connectors that have been used elsewhere.
2. The water pressure entering the appliance must be between 29 and 51 PSI (2.0 and 3.5 bar).

   IMPORTANT: If inlet water pressure exceeds 51 PSI (3.5 bar), we recommend installing a pressure regulator.
3. Using the 3/8” O.D. tubing, connect from the water inlet port (1) of the unit to the cold water supply system.

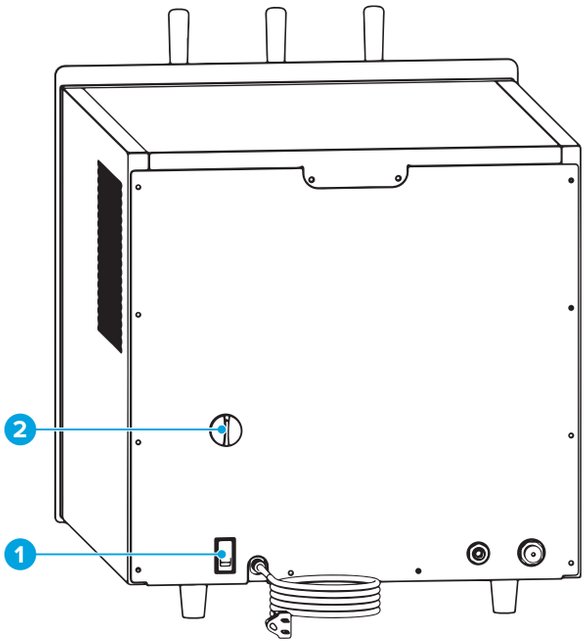
   IMPORTANT: Install locking clips on all push-type fittings.
4. After connecting tubing, open the faucet on the cold-water pipe and allow water to flow into appliance. Open the taps. Ensure there are no leaks.
5. Before using the water in the drinking system, thoroughly flush tubing and waterways of the appliance by dispensing 1 to 2 gallons of water from each tap.



Connect to Power Supply

IMPORTANT: Power supply connections must comply with local regulations. Grounding the appliance is a legal requirement.

1. Connect the power cord to the socket.
2. Turn on the unit by selecting the “I” position on the main switch (1). The ice bank pump, compressor, fan, and carbonator pump are now activated.
3. Press the sparkling water tap to release air from the pipeline, which will allow the pump to load water into the carbonator.



Thermostat

The thermostat (2) is set to the middle position to control the ice bank. If you wish to prevent ice formation in the ice bank, rotate the thermostat counterclockwise to a smaller number.

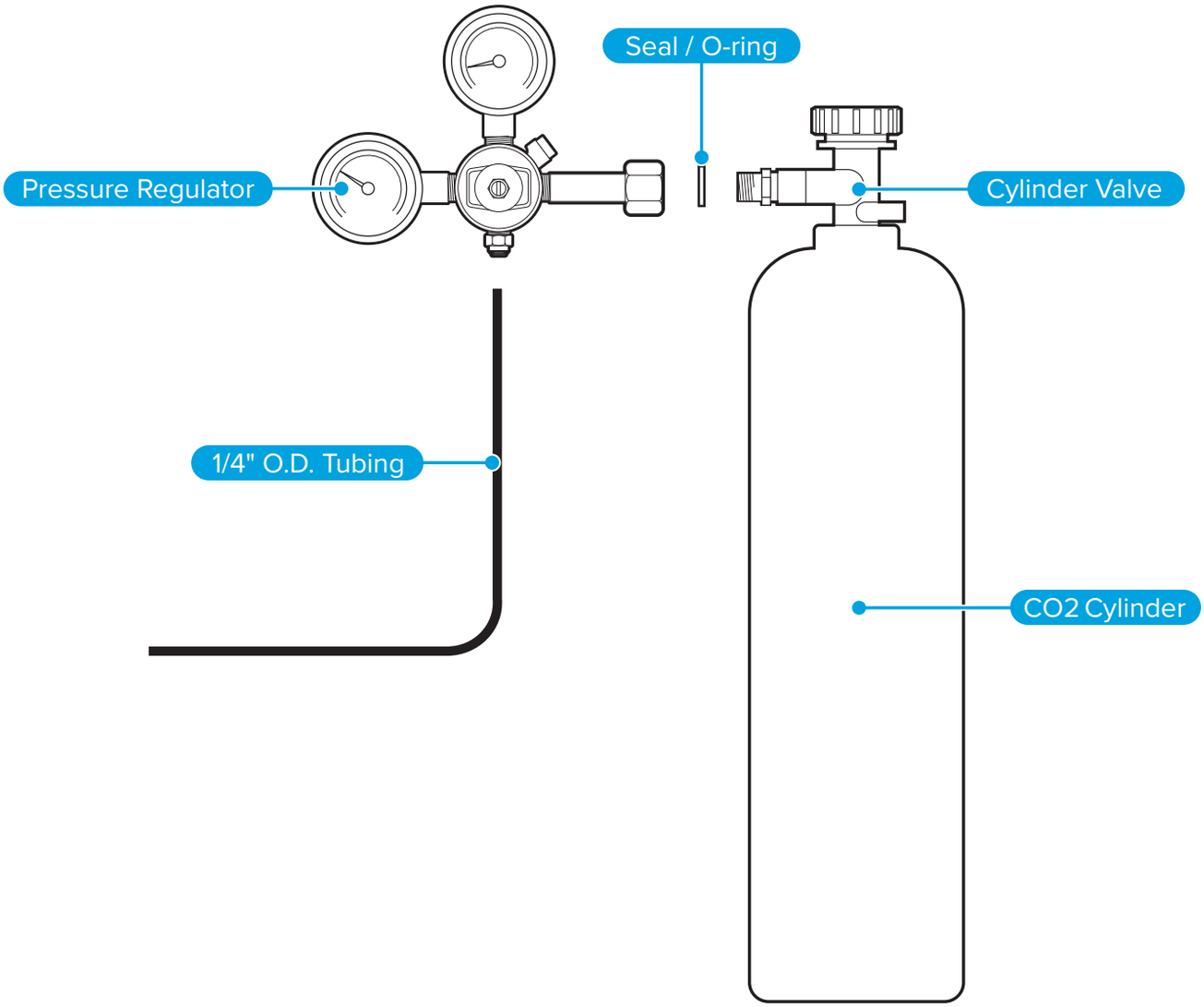
If the waterway freezes, shut down the appliance and keep it off for at least 12 hours.

CO2 Supply System Installation

IMPORTANT: Use only food-grade CO2 (UN1013).

1. Place CO2 cylinder (purchased separately) within 5 ft. (1.5 m) of the countertop water dispenser or undersink chiller.
2. Use a small chain or strap to secure CO2 cylinder to fixed support.
3. To ensure there is no debris in the CO2 cylinder valve and that it is operational, slowly open the valve and allow some CO2 gas to leak out for a few seconds. Close CO2 cylinder valve.
4. Attach the pressure regulator (purchased separately) to the cylinder valve and firmly tighten. Ensure the supplied O-ring seal is between the CO2 cylinder valve and the pressure regulator fitting.

NOTE: Do not connect CO2 tubing to the unit until installation is complete. For the countertop model, proceed to “Countertop Model – Connecting CO2 Gas” section. For undersink chiller model, proceed to “Undersink Chiller Installation.”



Countertop Model - Connecting CO2 Gas

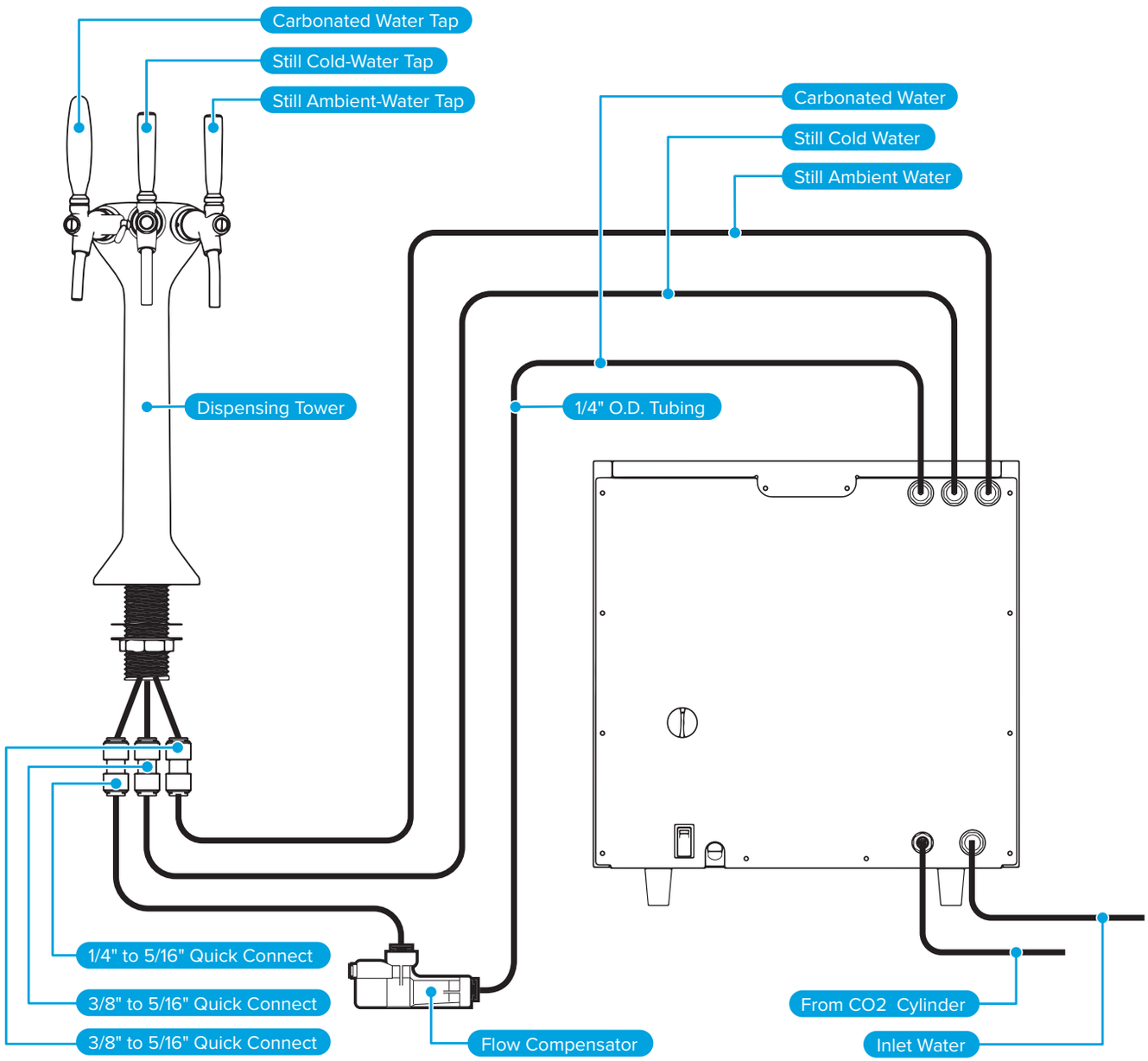
1. Connect the 1/4” O.D. CO2 tube from the CO2 cylinder pressure regulator to the 1/4” CO2 inlet on the back of the unit.

   IMPORTANT: Install locking clips on all push-type fittings.

Undersink Chiller Installation

Installing 3-Tap Dispensing Tower

1. Drill a 50-mm hole in the counter where the dispensing tower will be placed.
2. Insert the stem of the dispensing tower into the hole.
3. From underneath the counter, slide the rubber washer up the stem of the dispensing tower until it sits flush against the undercounter.
4. Rotate the locking nut up the stem until it fixes the dispensing tower securely to the counter.
5. With the 3-tap dispensing tower facing you, attach the 5/16” end of the 1/4” to 5/16” quick connect to the carbonated water stem. Repeat the process with the two 3/8” to 5/16” quick connects and the two remaining stems.
6. Securely screw in taps, with the carbonated tap on the left, still cold water in the center, and still room water on the right.



Connecting Carbonated-Water Tubing

1. Insert the 1/4” O.D. tubing into the tubing insulation provided.
2. Connect the 1/4” O.D. tubing to the left carbonated water outlet on the back of the unit.
3. Connect the other end of the 1/4” O.D. tubing to the inlet of the flow compensator.
4. Connect one end of the second 1/4” O.D. tubing to the outlet of the flow compensator, then connect the other end of the tubing to the left 1/4" quick-connect fitting on the dispensing tower.

Connecting Still Cold-Water Tubing

1. Insert the 3/8” O.D. tubing into the tubing insulation provided.
2. Connect the 3/8” O.D. tubing to the center still cold-water outlet on the back of the unit.
3. Connect the other end of the tubing to the center 3/8" quick-connect fitting on the dispensing tower.

Connecting Still Ambient-Water Tubing

1. Insert the 3/8” O.D. tubing into the tubing insulation provided.
2. Connect the 3/8” O.D. tubing to the right still ambient-water outlet on the back of the unit.
3. Connect the other end of the tubing to the right 3/8" quick-connect fitting on the dispensing tower.

Connecting CO2 Gas and Water Supply Line

1. Connect the 1/4” O.D. CO2 tube from the CO2 cylinder pressure regulator to the 1/4” CO2 inlet on the back of the unit.
2. Use 3/8” O.D. tubing to connect the water inlet port of the unit to the cold water supply system.

IMPORTANT: Install locking clips on push-type fittings of all components and connections.

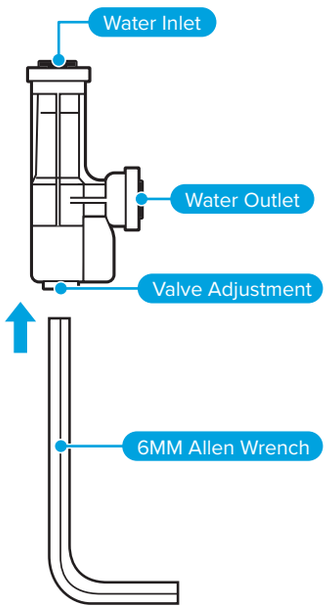
Flow Compensator Adjustment (Undersink Chiller Model Only)

The CO2 water flow has been factory-set to provide the proper flow rate of approximately 1 liter per 15 seconds. However, it may be necessary to adjust this in the field.

To adjust flow:

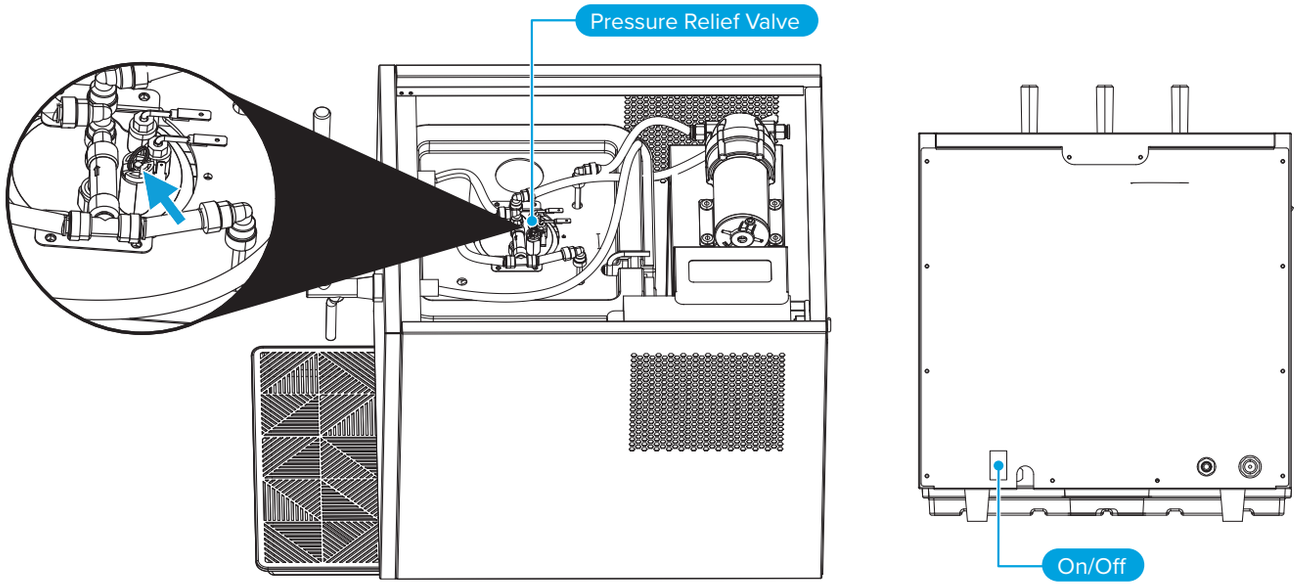
1. Insert a 6mm Allen wrench into the adjustment screw of the compensator valve.
2. To decrease flow rate, turn clockwise.
3. To increase flow rate, turn counterclockwise.

NOTE: We recommend adjusting the valve approximately 1/2 turn at a time. A proper setting is important for the correct carbonation level.

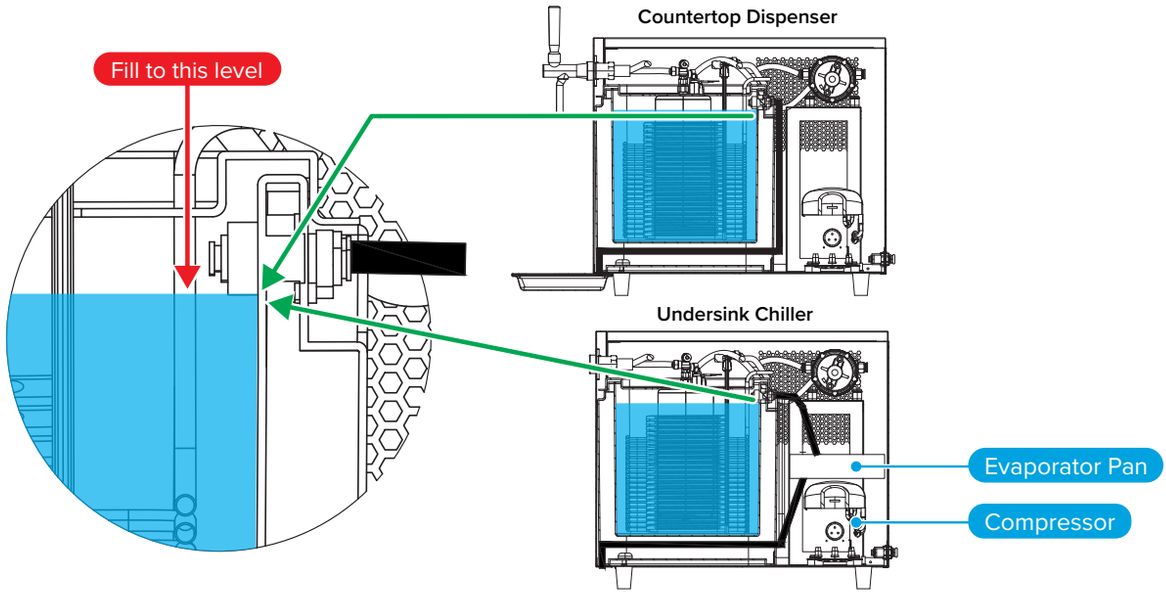


Startup Procedure

1. Remove the two lid screws, then the lid, to access the inside of the unit.
2. Ensure all water and CO2 connections have been made.
3. Open the water shut-off valve and check the system for leaks.
4. Open the pressure relief valve located on the carbonator tank by pushing down on the pressure relief ring as shown in the illustration. Keep it open until water flows from the valve, then close it.



5. If you have not already done so, dispense 1 to 2 gallons of water from each tap to clear the lines and flush the new filters (if installed).
6. Slowly open the CO2 cylinder valve until it is completely open and adjust the pressure at the cylinder regulator with a target 60 PSI (4.1 bar) and a maximum of 65 PSI (4.5 bar). Check for leaks.
7. Have 2.5 gallons of distilled or deionized water available and use it to fill the insulated reservoir to the level shown. Carefully fill until the water level is just below the condensation overflow outlet.



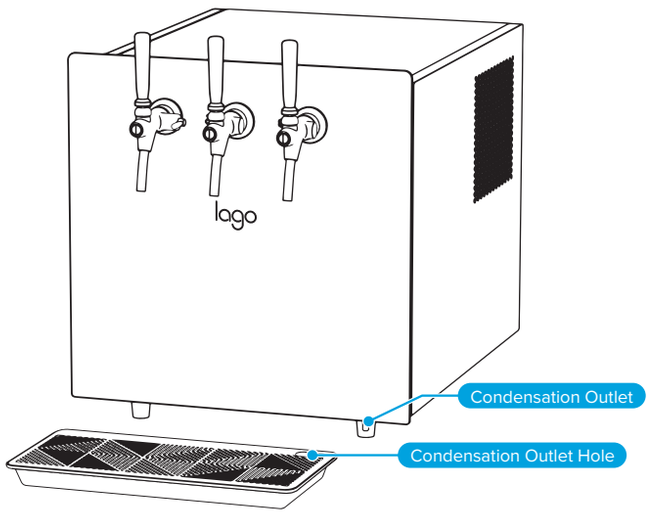
8. Reinstall the lid, securing with the two screws.
9. Plug the unit into a suitable electrical outlet.
10. Turn the power switch to the ON position. The switch will illuminate to indicate the power is on.
11. Adjust the CO2 water flow (left tap) to a rate of 1 liter per 15 seconds using the flow rate adjustment lever located on the side of the tap body. This is important for correct carbonation level.
12. Before using the unit, allow it to complete at least one refrigeration cycle (about 3 to 4 hours).

Drip Tray Placement

The drip try is designed to collect condensation that accumulates during the normal operation of the unit. The condensation outlet is located at the bottom of the countertop unit, about 1 in. (2.54 cm) from the front right corner.

The drip tray has a large hole to allow condensation to run freely into the drip tray. To properly align the hole on the countertop unit, center the drip tray right to left, then push all the way back until contact with front feet is made.

On the 3-tap dispensing tower unit, center the drip tray under the taps.



Care and Maintenance

IMPORTANT: Always unplug unit and shut off water and CO2 supply during maintenance of unit.

1. Wipe off taps and nozzles of the countertop unit on a daily basis using a clean cotton cloth or non-abrasive sponge and hot water.
2. The drip tray should be emptied and cleaned with hot water on a daily basis. Reinstall the drip tray in its proper location to ensure collection of condensation overflow during normal appliance operation.
3. If using the 3-tap dispensing tower, the tower, taps, and nozzles should be wiped off on a daily basis using a clean cotton cloth or non-abrasive sponge and hot water.
4. If using a drip tray with 3-tap dispensing tower, it should be emptied and cleaned with hot water on a daily basis. Be sure to reinstall it in its proper location.
5. The external stainless-steel surface of the cabinet should be cleaned and polished periodically with a non-abrasive cleaning solution or metal cleaner and a soft cotton cloth.
6. When the CO2 regulator gauge needle moves to the red section of the gauge, the CO2 cylinder must be replaced to avoid disruption of the sparking water supply.

   IMPORTANT: If the CO2 cylinder is low or empty, the carbonation level will be low.
7. Check the heat exchange water reservoir monthly. Add distilled or deionized until the water level is just below the condensation overflow outlet. DO NOT fill to the very top of the reservoir.

   IMPORTANT: ALWAYS unplug from electrical supply before performing this maintenance.

Troubleshooting

Problem	Reason	Solution
Unit is not working.	• No power	• Check the power outlet, plug connection and circuit breaker. Ensure power switch is ON.
The refrigerator system is working but the agitator has stopped.	• The agitator motor has failed.	• Replace agitator.
The refrigeration system is not cooling water (the fan, compressor, and agitator are all working).	• No refrigerant gas. • Dispensing more water than machine-rated capacity.	• Contact a service technician.
The refrigerator system is not cooling the water (the fan has stopped, but the compressor and agitator are still working).	• Condenser fan has malfunctioned or seized due to excessive accumulation of lint.	• Clean or replace the motor/fan.
The refrigeration system is not cooling water (the fan and compressor have stopped, but the agitator is still working).	• Thermostat fault. • Ice bath in reservoir caused by insufficient water level.	• Check thermostat. • Add water to the reservoir.
The refrigeration system is not cooling water (the compressor has stopped, but the fan and agitator are still working).	• The thermal compressor protector has been activated. • Compressor relay has short circuited. • Compressor is defective.	• Turn off the power, wait 15-20 minutes, then turn power back on. If problem persists, contact a service technician. • Replace the compressor relay. • Replace the compressor.
The refrigeration system never stops, and the water is solid ice.	• Thermostat fault. • Ambient temperature is too hot.	• Replace thermostat. • Move machine to a room with a lower ambient temperature.
The carbonator water pump makes a loud noise.	• Main water supply valve for filter is set to minimum. • Loose mounting screws.	• Check the supply valve and open it to the maximum setting. • Check the mounting screws and tighten if necessary.
The water temperature is too warm.	• Thermostat fault. • Insufficient water level in reservoir. • Agitator has stopped. • Dispensing more water than machine-rated capacity.	• Replace thermostat. • Add water to reservoir. • Restart the unit or replace the agitator.
Water has an unusual taste.	• CO2 used is not for drinking water. • Incoming water quality.	• Check the type of CO2 (UN 1013). If necessary, change the tank. • Clean and sanitize the faucets.
Water is not sufficiently carbonated.	• CO2 pressure is too low. • CO2 cylinder is empty. • Incorrect functioning of the pump and motor. • Accumulation of air in the carbonator tank.	• Adjust the pressure regulator so that CO2 pressure is between 60 and 65 PSI (4.1 to 4.5 bar). • Replace the CO2 cylinder. • Ensure pump and motor are working well. • Release air by lifting the black lever on the head of the carbonator tank's pressure relief valve for 1 to 2 seconds.

Problem	Reason	Solution
CO2 gas runs out too fast.	• There may be a leak in the supply line, connectors, or valve.	• With a clean paintbrush and a solution of soap and water, wash the external tubing lines of the CO2 cylinder to pinpoint the leakage. Replace defective valve, regulator/gasket, or tubes.
CO2 gas comes out of the carbonated water faucet (green handle).	• Water pump is not working. • CO2 tank float-switch fault.	• Check or replace the water pump. • Check CO2 tank float switch.
Carbonated water squirts out of the still water faucet.	• CO2 tank check valve is possibly stuck open.	• Clean or replace if defective.
Water does not dispense.	• Water is frozen around the coils. • Water supply tubes are kinked. • The flow compensator valve is closed.	• Ice has formed in the reservoir and is touching the water coil. Check agitator motor. • Ensure water supply line to machine is not pinched or kinked. • Adjust flow compensator valve to proper dispense setting of 33.81 oz. (1 L) per 15 secs.
Water dispenses very slowly.	• Water supply tubes are kinked. • Water shutoff valve is closed or set to minimum. • Water pressure is too low. • Water pressure valve regulator malfunction.	• Check and clean the tubes. • Completely open the water supply shutoff valve. • Check water pressure to unit. Pressure should be no lower than 29 PSI (2.0 bar). • Check the main water supply line.
Faucet continues to drip.	• Loose faucet lever bonnet. • There is scale buildup on faucet.	• Tighten faucet lever bonnet. • Clean faucets with warm water and vinegar.

Warranty

Lago (“Vendor”) warrants to the original purchaser of the Lago Water Coolers (the “Product”), and to no other person, that if the Product is assembled and operated in accordance with the printed instructions accompanying it, then for a period of one (1) year from the date of purchase, all parts in the Product shall be free from defects in material and workmanship. This Limited Warranty shall be limited to repair or replacement of parts, which prove defective under normal use and service and which Vendor shall determine in its reasonable discretion upon examination to be defective. To take advantage of this Limited Warranty, please follow these steps:

1. Please retain your sales slip or invoice, as Vendor may require reasonable proof of your date of purchase.
2. Contact Vendor’s Customer Service Department using the contact information listed below.
3. Return parts to Vendor, per Vendor’s instructions, at your cost and expense.
4. Upon receipt by Vendor, Vendor shall advise you in writing whether a defect covered by this Limited Warranty exists in any returned part and whether your claim has been approved or denied.
5. Upon Vendor’s approval of your claim, Vendor will replace such defective part without charge to you.

WHAT THIS LIMITED WARRANTY DOES NOT COVER: This Limited Warranty does not cover any failures or operating difficulties of the Product due to accident, abuse, misuse, alteration, misapplication, improper installation or improper maintenance or service by you or any third party, or failure to perform normal and routine maintenance on the Product, as set out in the User’s Manual. In addition, this Limited Warranty does not cover damages to the finish, such as scratches, dents, discoloration or rust after purchase.

This Limited Warranty is the only express warranty given on the Product and is in lieu of all other express warranties. Vendor disclaims all warranties for products that are purchased from seller other than authorized retailers or distributors. THIS LIMITED WARRANTY RESTRICTS THE DURATION OF ANY AND ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, THE IMPIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE TO THE ONE (1) YEAR TERM OF THIS LIMITED WARRANTY. UPON THE EXPIRATION OF THE ONE (1) YEAR TERM OF THIS LIMITED WARRANTY, VENDOR DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, THE PRODUCT BEING THUS SOLD AS-IS, WITH ALL FAULTS. FURTHER, VENDOR SHALL HAVE NO LIABILITY WHATSOEVER TO PURCHASER OR ANY THIRD PARTY FOR ANY SPECIAL, INDIRECT, PUNITIVE, INCIDENTAL, OR CONSEQUENTIAL DAMAGES. OTHER THAN THIS LIMITED WARRANTY, THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. Vendor assumes no responsibility for any defects caused by third parties. This Limited Warranty gives you specific legal rights, and you may have other rights which vary from state to state. State law may also override statements in this Limited Warranty regarding the restriction on the duration of implied warranties. Some jurisdictions do not allow exclusion or limitation of special, incidental or consequential damages, or limitations on how long a warranty lasts, so the above exclusion and limitations may not apply to you.

lago®