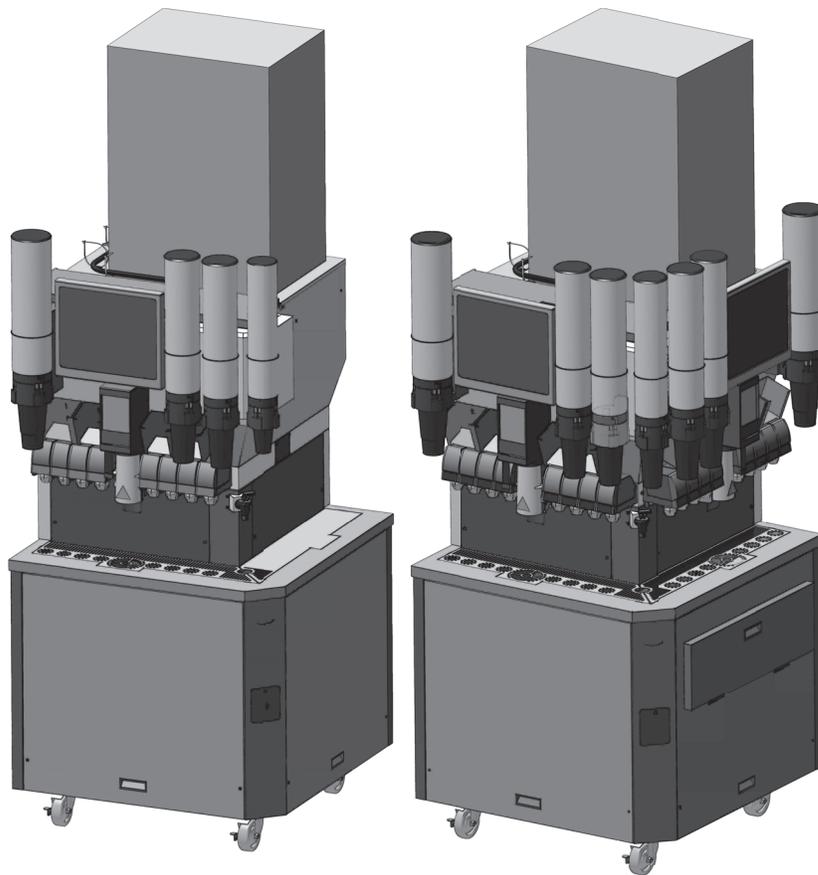


IDC-175 HD TOWER DISPENSER

Installation Manual



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Publication Number: 621058513INS

Revision Date: June 29, 2016

Revision: A

The products, technical information, and instructions contained in this manual are subject to change without notice.

These instructions are not intended to cover all details or variations of the equipment, nor to provide for every possible contingency in the installation, operation or maintenance of this equipment. This manual assumes that the person(s) working on the equipment have been trained and are skilled in working with electrical, plumbing, pneumatic, and mechanical equipment. It is assumed that appropriate safety precautions are taken and that all local safety and construction requirements are being met, in addition to the information contained in this manual.

This Product is warranted only as provided in Cornelius' Commercial Warranty applicable to this Product and is subject to all of the restrictions and limitations contained in the Commercial Warranty.

Cornelius will not be responsible for any repair, replacement or other service required by or loss or damage resulting from any of the following occurrences, including but not limited to, (1) other than normal and proper use and normal service conditions with respect to the Product, (2) improper voltage, (3) inadequate wiring, (4) abuse, (5) accident, (6) alteration, (7) misuse, (8) neglect, (9) unauthorized repair or the failure to utilize suitably qualified and trained persons to perform service and/or repair of the Product, (10) improper cleaning, (11) failure to follow installation, operating, cleaning or maintenance instructions, (12) use of "non-authorized" parts (i.e., parts that are not 100% compatible with the Product) which use voids the entire warranty, (13) Product parts in contact with water or the product dispensed which are adversely impacted by changes in liquid scale or chemical composition.

Contact Information:

To inquire about current revisions of this and other documentation or for assistance with any Cornelius product contact:

www.cornelius.com
800-238-3600

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This document contains the original instructions for the unit described.

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Printed in U.S.A.



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SAFETY INSTRUCTIONS

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

Safety Overview

- Read and follow **ALL SAFETY INSTRUCTIONS** in this manual and any warning/caution labels on the unit (decals, labels or laminated cards).
- Read and understand ALL applicable OSHA (Occupational Safety and Health Administration) safety regulations before operating this unit.

Recognition

Recognize Safety Alerts
 <p>This is the safety alert symbol. When you see it in this manual or on the unit, be alert to the potential of personal injury or damage to the unit.</p>

DIFFERENT TYPES OF ALERTS

DANGER:

Indicates an immediate hazardous situation, which if not avoided, **WILL** result in serious injury, death or equipment damage.

WARNING:

Indicates a potentially hazardous situation, which if not avoided, **COULD** result in serious injury, death, or equipment damage.

CAUTION:

Indicates a potentially hazardous situation, which if not avoided, **MAY** result in minor or moderate injury or equipment damage.

SAFETY TIPS

- Carefully read and follow all safety messages in this manual and safety signs on the unit.
- Keep safety signs in good condition and replace missing or damaged items.
- Learn how to operate the unit and how to use the controls properly.
- **Do not** let anyone operate the unit without proper training. This appliance is **not** intended for use by very young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance.
- Keep your unit in proper working condition and do not allow unauthorized modifications to the unit.

QUALIFIED SERVICE PERSONNEL

WARNING:

Only trained and certified electrical, plumbing and refrigeration technicians should service this unit. **ALL WIRING AND PLUMBING MUST CONFORM TO NATIONAL AND LOCAL CODES. FAILURE TO COMPLY COULD RESULT IN SERIOUS INJURY, DEATH OR EQUIPMENT DAMAGE.**

SAFETY PRECAUTIONS

This unit has been specifically designed to provide protection against personal injury. To ensure continued protection observe the following:

WARNING:

Disconnect power to the unit before servicing following all lock out/tag out procedures established by the user. Verify all of the power is off to the unit before any work is performed.

Failure to disconnect the power could result in serious injury, death or equipment damage.

CAUTION:

Always be sure to keep area around the unit clean and free of clutter. Failure to keep this area clean may result in injury or equipment damage.

SHIPPING AND STORAGE

CAUTION:

Before shipping, storing, or relocating the unit, the unit must be sanitized and all sanitizing solution must be drained from the system. A freezing ambient environment will cause residual sanitizing solution or water remaining inside the unit to freeze resulting in damage to internal components.

CO₂ (CARBON DIOXIDE) WARNING

DANGER:

CO₂ displaces oxygen. Strict attention **MUST** be observed in the prevention of CO₂ gas leaks in the entire CO₂ and soft drink system. If a CO₂ gas leak is suspected, particularly in a small area, **IMMEDIATELY** ventilate the contaminated area before attempting to repair the leak. Personnel exposed to high concentrations of CO₂ gas experience tremors which are followed rapidly by loss of consciousness and **DEATH**.

POWER CORD

CAUTION:

If the power cord is damaged, it must be replaced by a special cord available from the manufacturer or its service agent.

SOUND LEVEL

CAUTION:

The A-weighted sound pressure level has been determined to be below 70dBA.

UNIT LOCATION

CAUTION:

This unit is not designed for use in outdoor locations.

CAUTION:

The dispenser is not designed for a wash-down environment and **MUST NOT** be placed in an area where a water jet could be used.

INSTALLATION KIT

The following installation kit contains the components required to install the dispenser. This description is designed to assist you in identifying the components and checking the inventory.

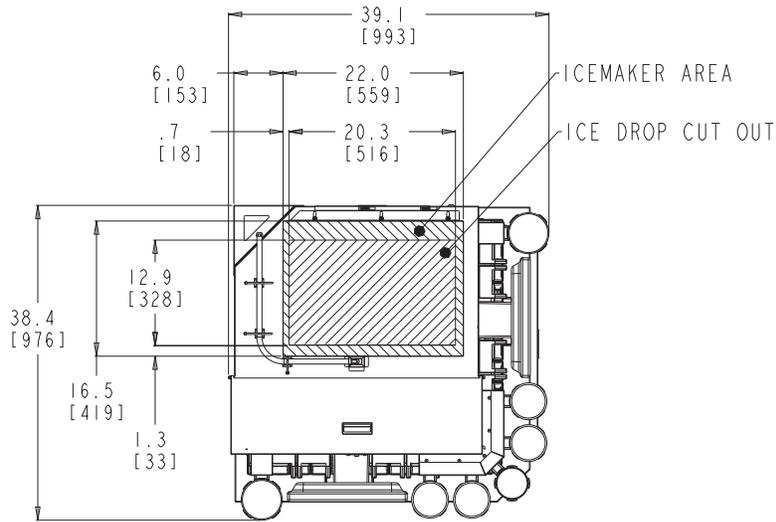
Sl.No	Component	Part Number	Description	Qty
1		560000221	Oetiker Clamp #18.5	20
2		140133000	Hose Clamp, Screw Type	1
3		620056954-003	Tubing SIL REI 3/8" ID	10 Ft
4		620056954-002	Tubing Silicon REI 0.250" ID X 0.520" OD	10 Ft
5		309852000	Oetiker Clamp #17.0	2
6		70407	Leg 6" ADJ 5/8-11THD(set of 4)	1
7	NO IMAGE	620049959-003 620049959-008	Power Cord (Power Inlet) for EUROPE Power Cord (Power Inlet) for SAUDI ARABIA	1
8	2 Sided	Packed with unit	Cup Tubes Kit	1
	1 Sided	Packed with unit		
9	NO IMAGE	630900128	Screws for Monitor Mounting Base.	4
10	NO IMAGE	620720824	Screws for Ice maker	6



GENERAL INFORMATION

The IDC175 -HD tower is a high capacity ice drink dispenser which comes with 1 or 2 dispensing sides. One side is for store and other side is for drive-thru in the 2 sided dispenser. The dispenser is equipped with 8 SFV1/LVV portion control valves and a Progate ice chute on each side. The machine has built-in with cup dispensers and lid holders for easy use.

Variant	1 Sided Unit	2 Sided Unit
Specification		
Unit Weight (Dry)	~476 lbs	~574 lbs
Ice Storage	155 lbs	155 lbs
Maximum Number of Faucets	9, (8 Valves + 1 Water Faucet)	17, (16 Valves + 1 Water Faucet)
Product Cooling	Ice Slurry Bath	Ice Slurry Bath
Electrical	Connections: 6 ft (1.83 m) long power cord with 3-prong plug attached to dispenser.	Connections: 6 ft (1.83 m) long power cord with 3-prong plug attached to dispenser.
	Power requirement: 220/230VAC, 50/60Hz 16 Amps of total unit draw.	Power requirement: 220/230VAC, 50/60Hz 16 Amps of total unit draw.
Unit Positioning	Unit must be placed in a vertical position.	Unit must be placed in a vertical position.
Dimensions	97.5" x 38.4" X 38.6"	97.5" x 38.4" X 39.1"
CO2 / air inlet Pressure	75-psig (517.1 kPa), min	75-psig (517.1 kPa), min
Water Inlet Pressure	100 psi (689.5 kPa) max static pressure 40 psi (275.8 kPa) min dynamic pressure 3/8" ID (9.5 mm) hose for water line is recommended	100 psi (689.5 kPa) max static pressure 40 psi (275.8 kPa) min dynamic pressure 3/8" ID (9.5 mm) hose for water line is recommended
Features		
4 programmable ice dispense sizes.	Yes	Yes
Automatic/manual ice dispense modes.	Yes	Yes
Integrated lid storage.	No	Yes
4 adjustable casters.	Yes	Yes
Semi-automatic hopper cleaning.	Yes	Yes
Ice Dispensing	1 portion control ice dispensing chute.	2 portion control ice dispensing chutes (one on each side)
Dispensing Valves	8 Cornelius SFV1/LVV portion control beverage valves and one water faucet.	16 Cornelius SFV1/LVV portion control beverage valves (8 on each side) and one water faucet.
Accessories		
Cup Dispensers	4	7
Lid Holders	4 separate removable lid holders. 3 lid holders are for small or medium lids and 1 lid holders is for large lids.	8 separate removable lid holders. 6 lid holders are for small or medium lids and 2 lid holders is for large lids.



RECOMMENDED ICE MAKER		
ITEM NO	BRAND	MODEL
1	MANITOWOC	IB-0696C
2	MANITOWOC	IB-0890C
3	MANITOWOC	IB-1090C
4	SCOTSMAN	PRODIGY EH222 800
5	SCOTSMAN	PRODIGY EH222 1000

Store Side

Drive Through Side

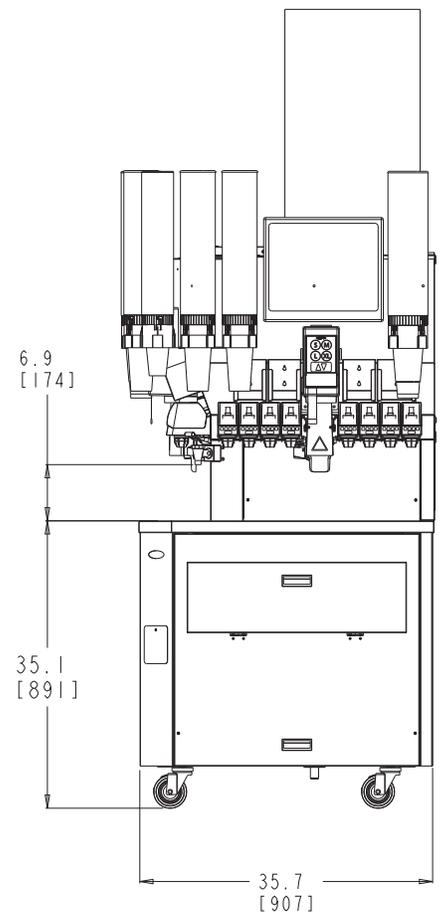
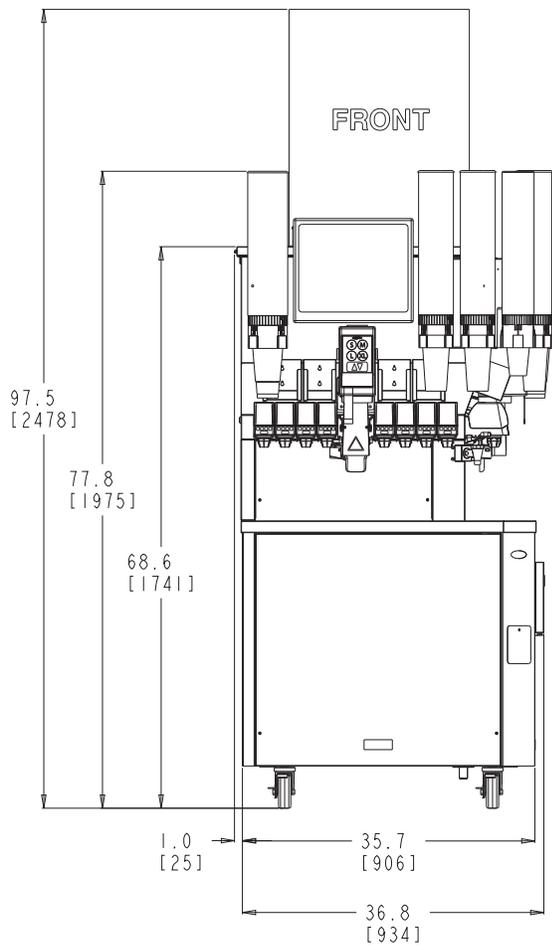
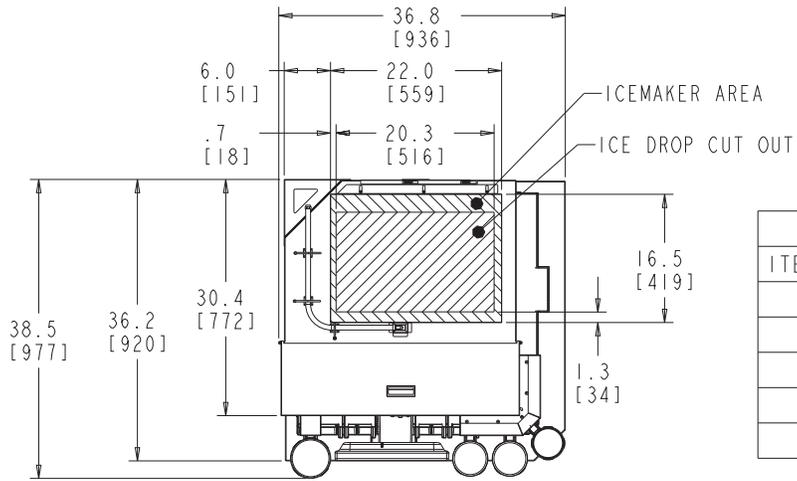


Figure 1. Unit Dimensions - 2 Sided



RECOMMENDED ICE MAKER		
ITEM NO	BRAND	MODEL
1	MANITOWOC	IB-0696C
2	MANITOWOC	IB-0890C
3	MANITOWOC	IB-1090C
4	SCOTSMAN	PRODIGY EH222 800
5	SCOTSMAN	PRODIGY EH222 1000

Store Side

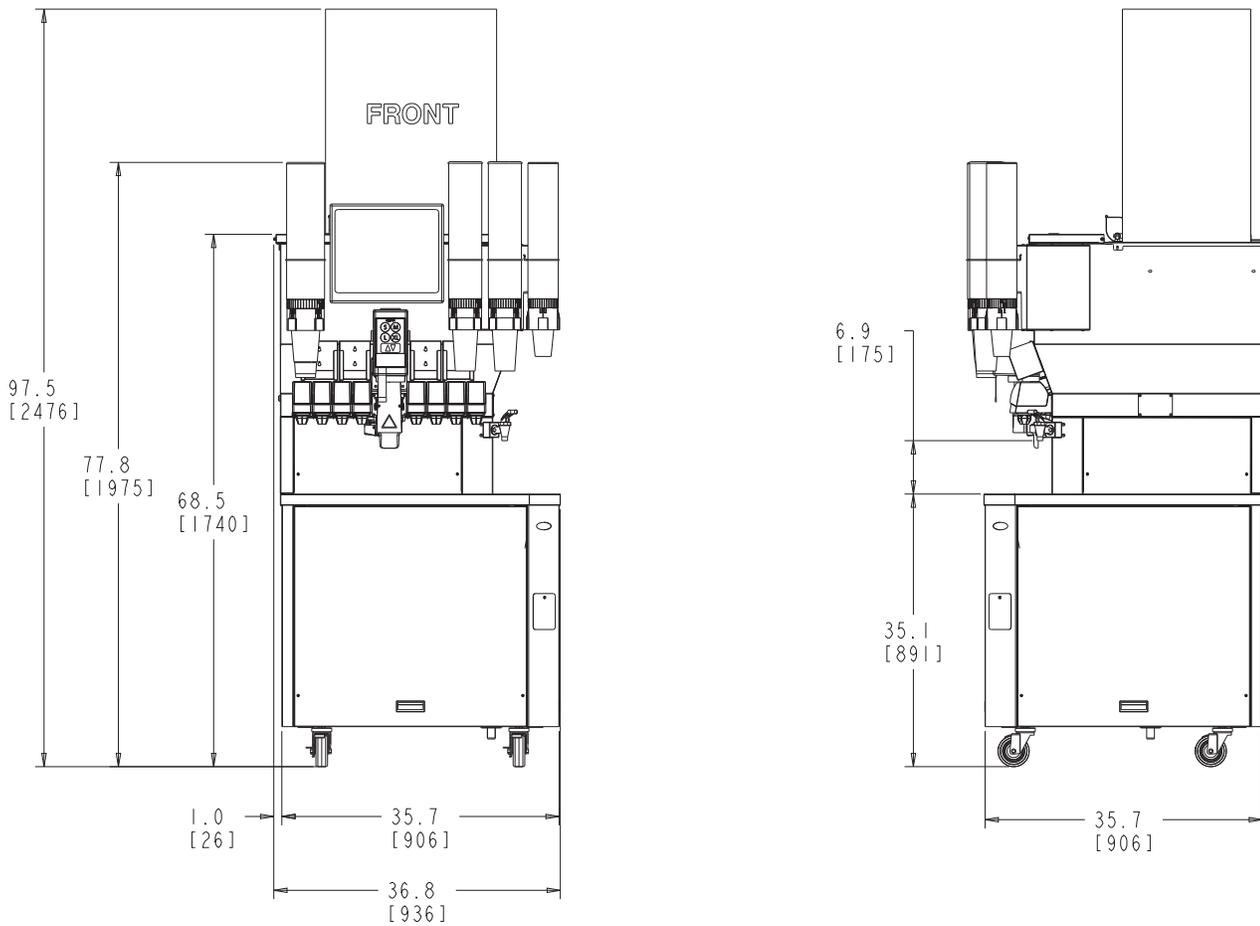


Figure 2. Unit Dimensions - 1 Sided

INSTALLATION

PLACEMENT

WARNING:

It is the responsibility of the installer to ensure that the water supply to the dispensing equipment is provided with adequate back flow protection by an air gap as defined in ANSI A 112.1.2-1979; or an approved vacuum breaker or other such method as proved effective by test and must comply with all federal, state and local codes.

Failure to comply could result in serious injury, death or damage to the equipment.

Water pipe connections and fixtures directly connected to a potable water supply shall be sized, installed and maintained according to Federal, State and Local laws.

WARNING:

Only trained and certified electrical, plumbing and refrigeration technicians should service this unit.

All wiring and plumbing must conform to national and local codes. Failure to comply could result in serious injury, death or equipment damage.

CAUTION:

Follow the procedure step by step to prevent damaging the unit.

STEP 1: INSTALLING LEGS

Check for sufficient height availability. Raise the unit (measured from base of unit) to a height of 9" approximately from ground. Remove the caster wheels (4 qty) and install the legs (4 qty) into the threaded holes provided. Lower the unit to rest on ground. The installer must provide flexibility in the product and utility supply to permit shifting the position of the dispenser sufficiently to clean the area beneath it.

NOTE: Skip this step if stationary leveling legs replacing wheel are not required on the dispenser.

STEP 2: DRIP TRAY DRAIN ASSEMBLY INSTALLATION

Assemble the drain tubes to the unit drain using the fittings, clamps, and insulation provided with the dispenser. The completed drain line must pitch continuously downward and should not contain "traps" to ensure proper drainage.

1. The unit must be located close to a permanent drain (preferably under the unit when in operating position) to route the unit drip tray drain hose and the water tank overflow hose.

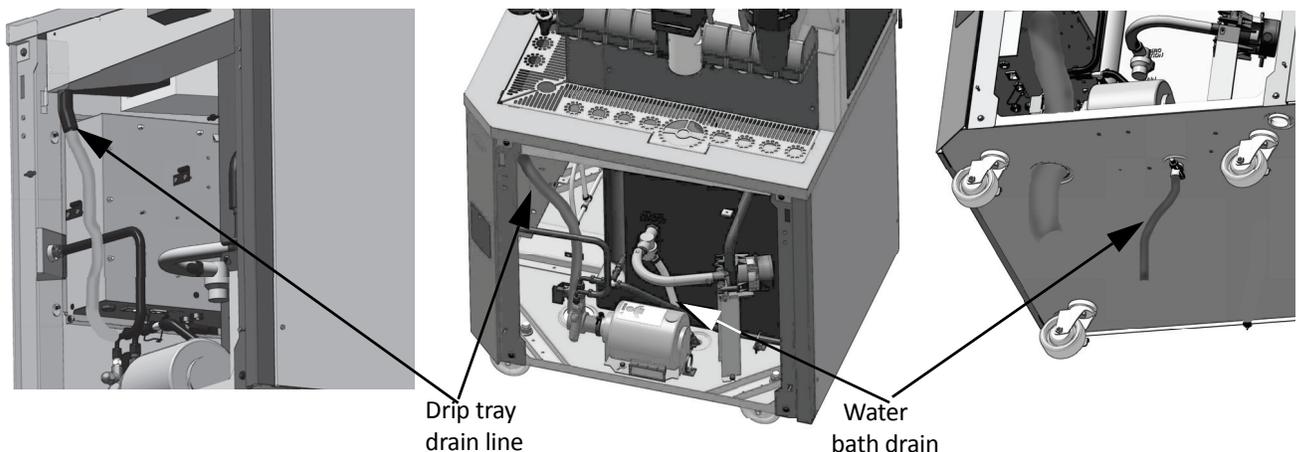


Figure 3.

STEP 3: WATER BATH FILLING

Fill the Water Bath from the city water line in the store.

CAUTION:

Plug-in/switch-on the unit only after water has been filled up. Switching on the pump without water will damage the pump.

1. To access the water bath, remove the cup rest and then remove the splash panel.
2. Insert the food-grade hose in the location shown in figure 4. Fill the water bath with clean water until the water comes out of the over flow port in the drain pan. Use low-mineral tap water, not distilled or de-ionized water.
3. Make sure the over flow ports located under cup rest and not blocked or plugged.
4. Once the water bath is filled, remove the hose, reinstall the splash panel and the cup rest.

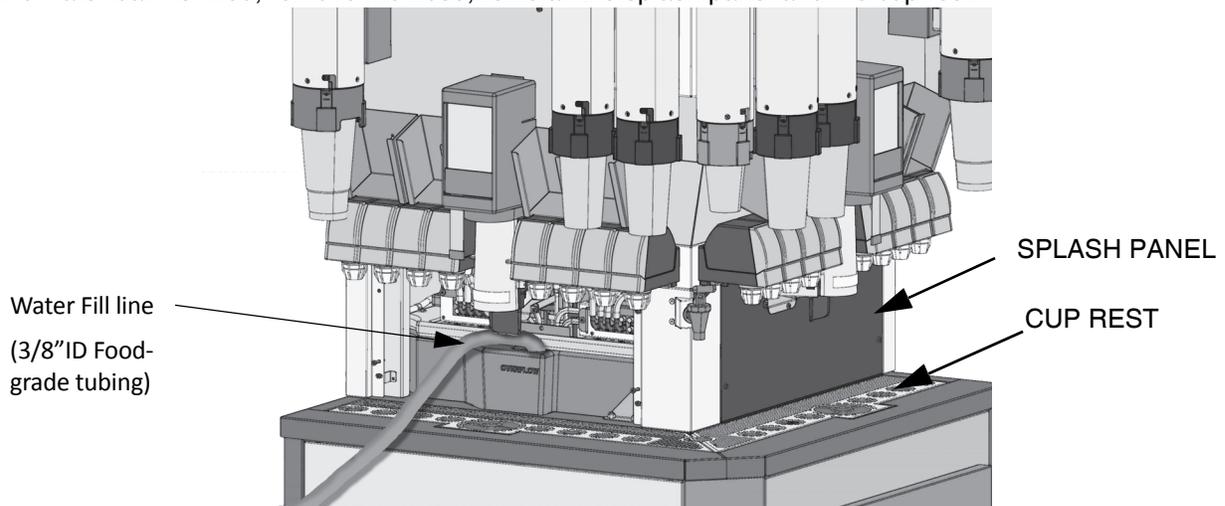
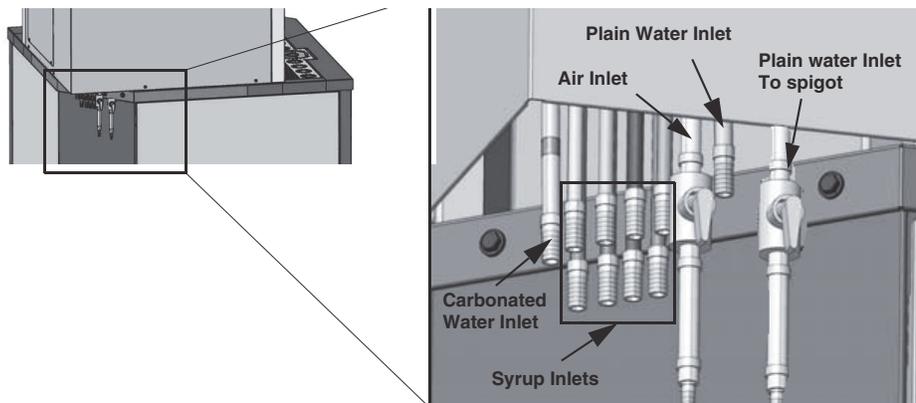


Figure 4.

NOTE: Cornelius Inc. recommends that a water shutoff valve and water filter be installed in the plain water inlet supply line. A Cornelius water filter (P/N 313860000) and quick disconnect set (P/N 313867000) are recommended

STEP 4: INLET WATER/ SYRUP INSTALLATION



1. Use 3/8" ID (.9525 cm) tubing and connect it to the inlet barb fitting of the carbonated water inlet tube and the plain water inlet tube.
2. Use 3/8" ID (.9525 cm) tubing and connect it to the 8 inlet barb fittings of the syrup inlet tubes.
3. Use Oetiker clamps to secure the lines to the barb fittings.

NOTE: Before connecting please check label on pipe inlet (CW: Carb water, WTR: Plain water).

STEP 5: INLET AIR INSTALLATION

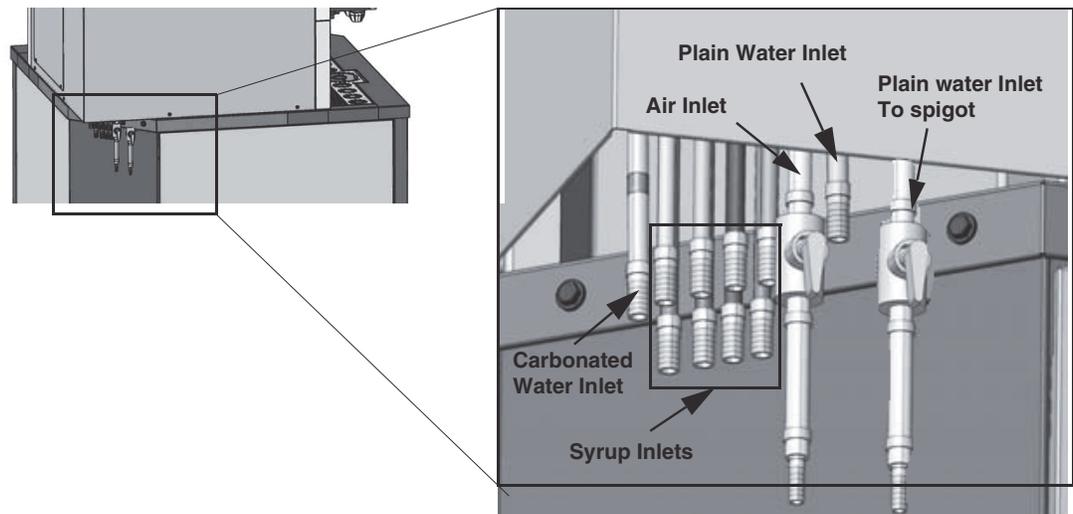


Figure 5.



WARNING:

Store air supplied from a compressed air system could contain moisture and oils that could damage and/or cause loss of performance or malfunction. Cornelius Inc. recommends to use a filter-drier in the line before connecting to the inlet port

1. Locate the air inlet at the rear of the unit.
2. Use 1/4" ID (0.64 cm) tubing capable of handling a minimum of 120 psi (827.4 kPa).
3. The shut-off valve must be turned off before connecting the tubing to the barb fitting.
4. Connect air supply to barb fitting and secure using oetikar clamp
5. Turn on the shut-off valve.

STEP 6: LID DISPENSER INSTALLATION

Lid dispensers are placed above the beverage dispensing valves on the merchandiser panel. Lid dispensers can be hooked on the merchandiser by using the key way slot provided on them.

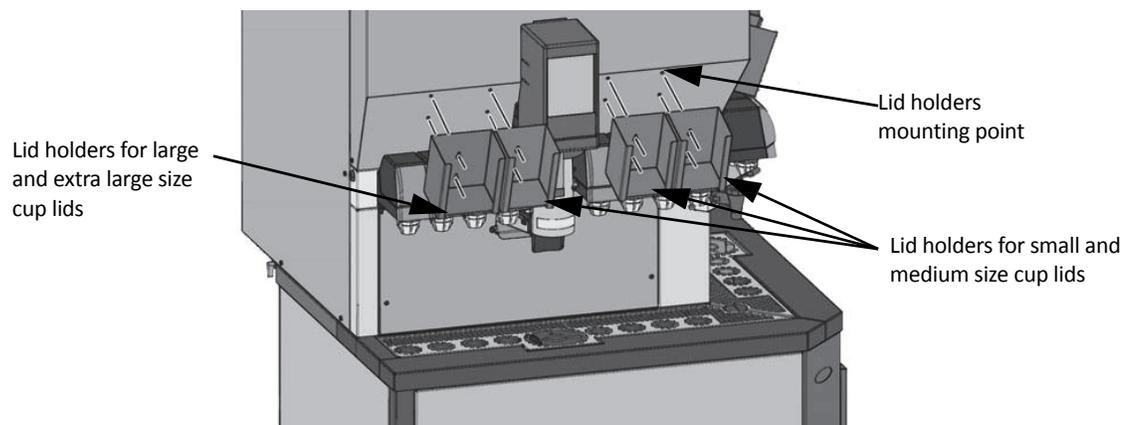


Figure 6.

STEP 7: CUP DISPENSER INSTALLATION

Cup dispensers do not come attached to the unit. Install the cup dispensers during unit installation.

1. Each cup dispenser has two mounting holes.

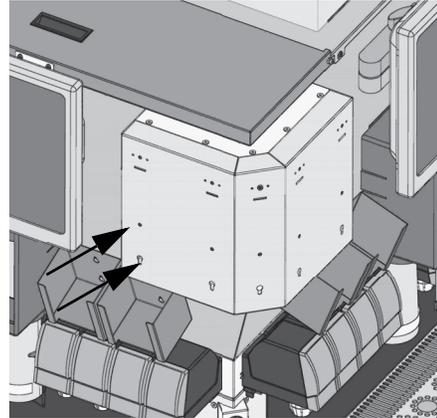


Figure 7.

2. Attach the cup tube retainer as shown.

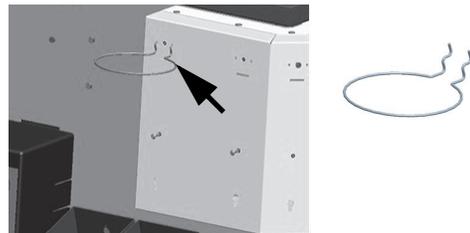


Figure 8.

3. Assemble the base of the cup dispenser by hooking on to the lower mounting point.

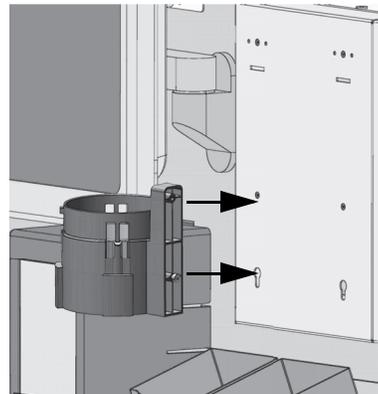


Figure 9.

4. Pivot the base to align the second mounting point with the top hole and fix in place with a screw.

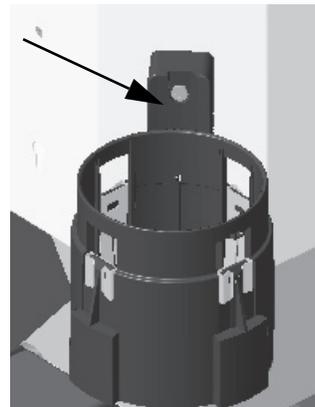


Figure 10.

5. Insert cup tube assembly on top of cup holder by passing it through top ring.
6. Close the cup tube with the cup tube lid by pressing the lid into place on the cup tube.

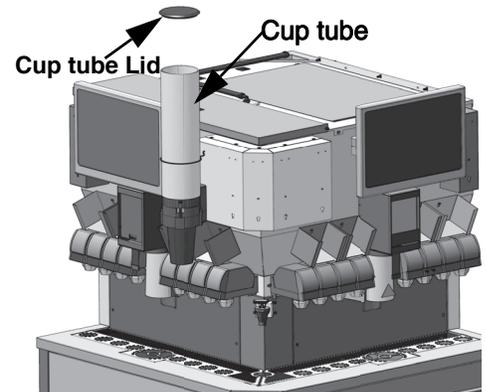


Figure 11.

7. Maneuver the cup tube through the cup tube retainer to the cup dispenser. Then rotate and lock the cup tube on to the cup dispenser.

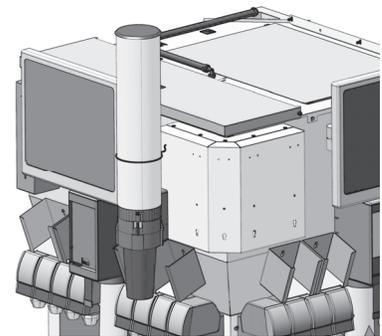


Figure 12.

8. Load one complete sleeve by pushing through bottom opening and gradually lower the hand until the cups are supported.
9. Repeat the procedure for rest of the cup dispensers.

⚠ CAUTION:
Do not load more than one sleeve/pack. This may damage the fingers and /or cause multiple cups dispensing.

STEP 8: DISPLAY INSTALLATION

Displays do not come attached to the unit. Install the displays during unit installation.

1. Fasten the base on to the unit. Use screws from Installation kit #9.



Figure 13.

2. Mounting of monitor arm requires as shown in Figure 14.

Recommended Manufacturer: Innovative

Recommended Model: 9110-8.5-4

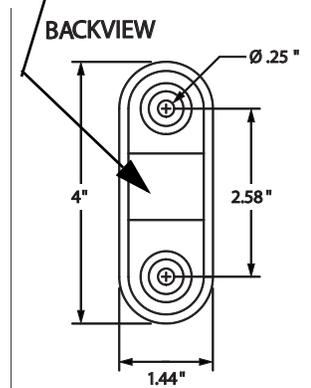


Figure 14.

3. Assemble the mounting to the base, then route the cables

NOTE: It is recommended to use monitor mounts of arm length from 4" to 14.75".

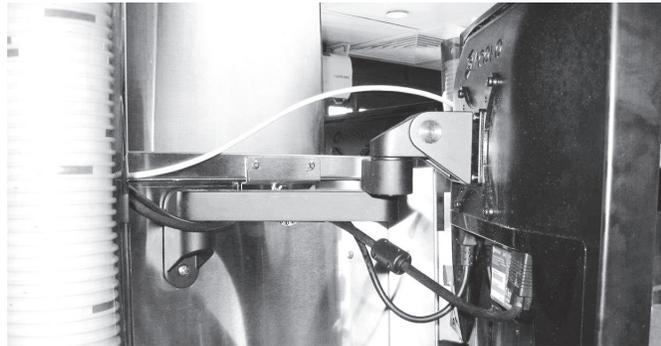


Figure 15.

4. Mount the display, then connect all the cables in their respective slots. Once done, maneuver the display to the desired position.

NOTE: Maximum weight of the monitor 45/lbs.



Figure 16.

STEP 9: ICE MAKER INSTALLATION.

1. Carefully place the ice maker on the unit.



WARNING:

Ensure that the CIP tube (1) is routed clear of the ice maker so that the tube is not cut or kinked by the ice maker during installation.



Figure 17.

2. Ensure the dispensing area of the ice maker is aligned with the cut-out on the top of the unit and the rear of the ice maker is flushed with the bracket. Align the screw slots on the ice maker to those on the bracket.

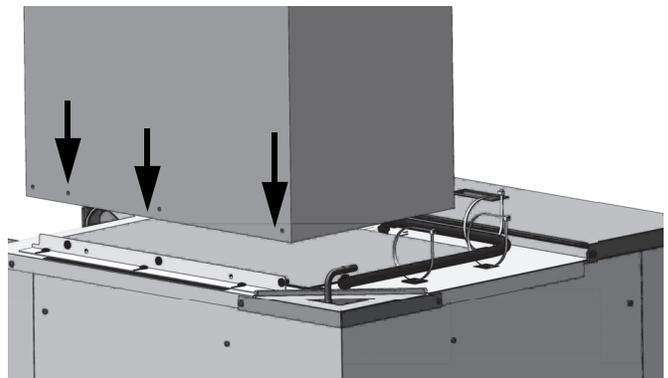


Figure 18.

3. Use the additional screws provided with the unit to assemble the ice maker to the bracket.

NOTE: Cornelius Inc. recommended to install a system to sense the level of ice inside the ice hopper (by adjusting the ice fill lever, or by installing an ice bin probe or a similar system) to avoid over filling up the ice bin which could cause heavy condensation on the ice water adapter. Example: With the Scotsman CVD ice maker you can adjust the fill lever electronically.

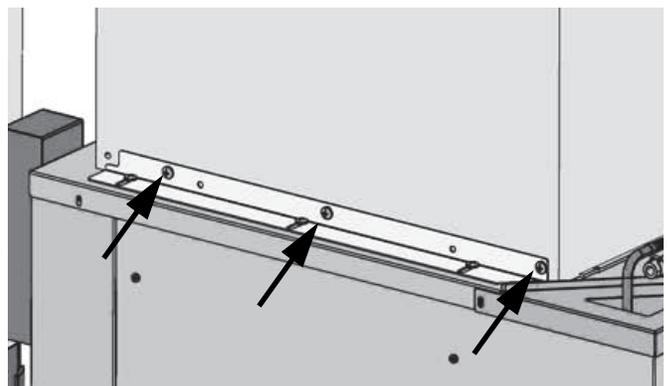


Figure 19.

STEP 10: ELECTRICAL INSTALLATION

⚠ DANGER:

To avoid possible fatal electrical shock or serious injury to the operator, it is **highly recommended** that a GFI (ground fault circuit interrupter) be installed in the electrical power circuit.

The machine is equipped with a power cord (hot, neutral and ground) and is plugged into any standard wall outlet capable of handling 16 A at 220/230VAC, 50/60Hz volts. The cord may be wrapped and stored under machine for shipment.

Unit	Plug Type	Voltage-Frequency-Phase	Amps
HD Tower	Blue Mennekes plug / Standard Shuko	220/230VAC - 50/60Hz -1	16 A
Ice Maker	Blue Mennekes plug / Standard Shuko	220/230VAC - 50/60Hz -1	16 A
Monitors	2 x Standard Shuko	220/230VAC - 50/60Hz -1	6 A

Locate the dispenser so that the following requirements are satisfied:

1. The electrical circuits must be properly fused (Slow-blow type fuses). **Do not** use HACR circuit breakers on the circuit of the unit. HACR circuit breakers may not react to voltage surges or spikes that can damage the electronics.
2. The electrical outlets must be accessible for ease of connecting and disconnecting the dispenser cords. No other electrical appliances should be connected to these electrical circuits.

NOTE: All electrical wiring must conform to national and local electrical codes

3. The clearance above top of the unit must be open and the front of the unit must be open to the room. These clearances must be provided to allow for proper air flow and to allow access to the ice bin for refilling.

⚠ CAUTION:

Water bath must be filled, as instructed on "Step 3: Water Bath Filling" on page 8, prior to powering up the dispenser.

STEP 11: PREPARING THE DISPENSER FOR OPERATION

1. Fill the water bath follow the instructions provided in "Step 3: Water Bath Filling" on page 8.



WARNING:

This unit must be grounded to avoid possible electrical shock to the operator. The unit power cord is equipped with a three pronged plug. If a three pronged (grounded) outlet is not available use an appropriate method to ground the unit.

Failure to comply could result in serious injury, death or damage to the equipment.

2. Connect electrical power cord of the unit to source.
3. Remove the splash panel and ensure that the carbonated and plain water tubes are not kinked and not contacting the agitator motor or the heater.
4. Connect the store water line to the plain water inlet tube and spigot tube.

NOTE: If the inlet pressure is less than 60 psi, use an appropriate water booster.

5. Connect the carbonated water line from the ambient carbonator to the carbonated water inlet.
6. Check for water and air leaks and tighten any loose connections.
7. Test for leaks at all the tubing connections.
8. Turn on the ice maker and wait until the hopper is filled completely with ice.
9. Then wait for a 15 minutes for the initial pull down and check if the parameters (temperature, carbonation, BRIX etc.) of the dispensed drink are matching the specifications. In case of any discrepancies, refer to the "Wiring Diagram - 1 Sided Unit" on page 19.
10. Confirm the drink quality.

The unit is now ready for operation.

PLUMBING DIAGRAM - 2 SIDED UNIT

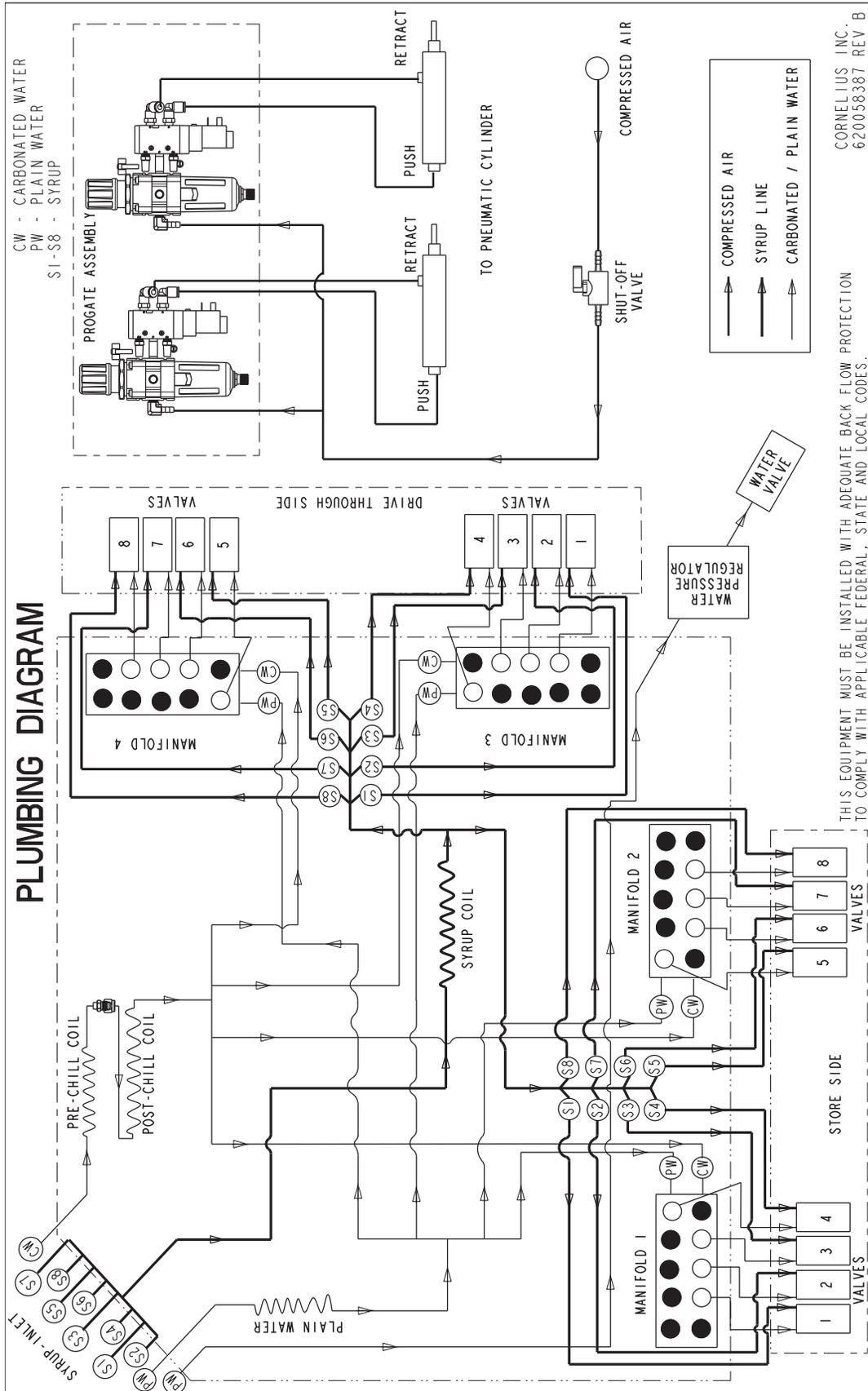


Figure 20.

PLUMBING DIAGRAM - 1 SIDED UNIT

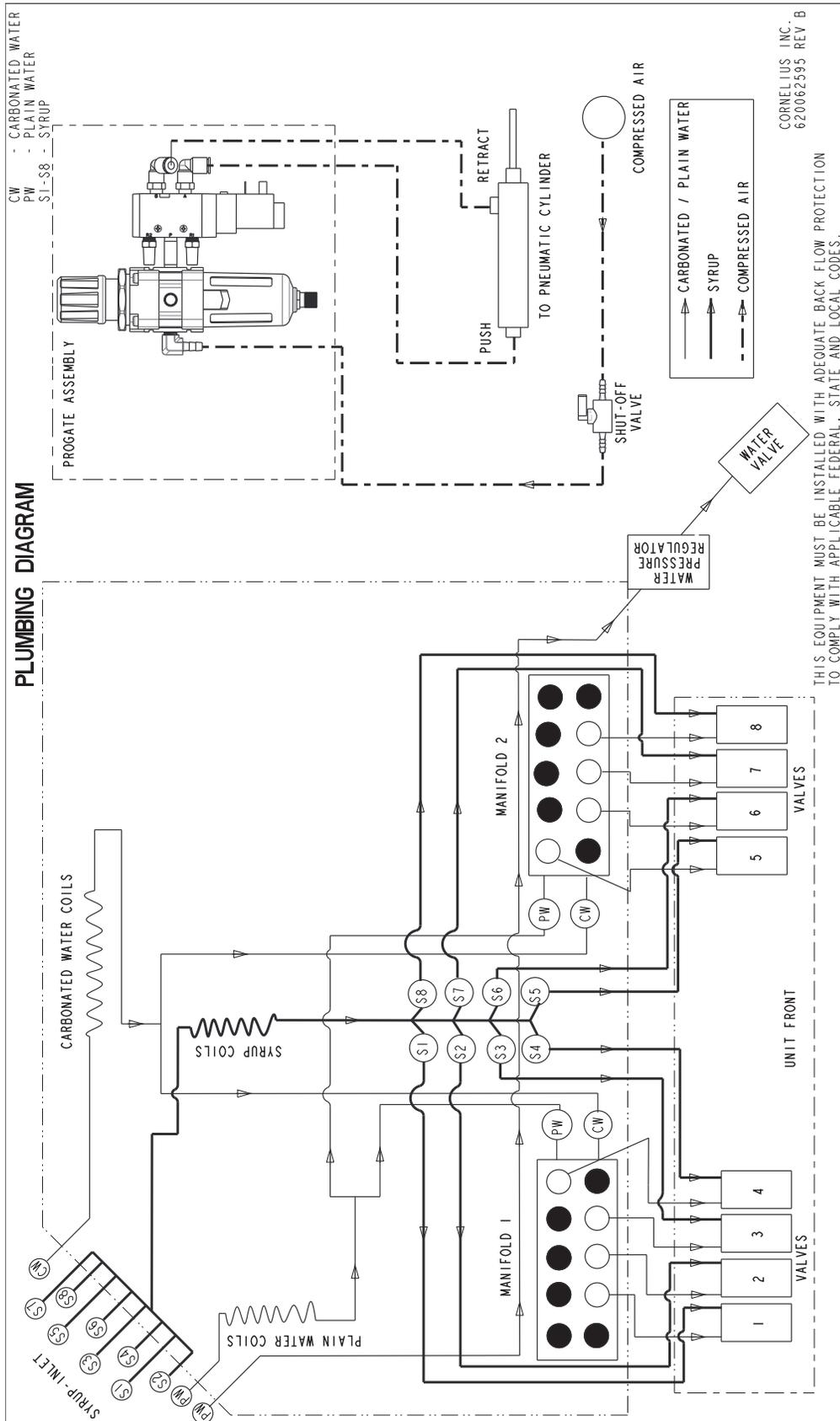
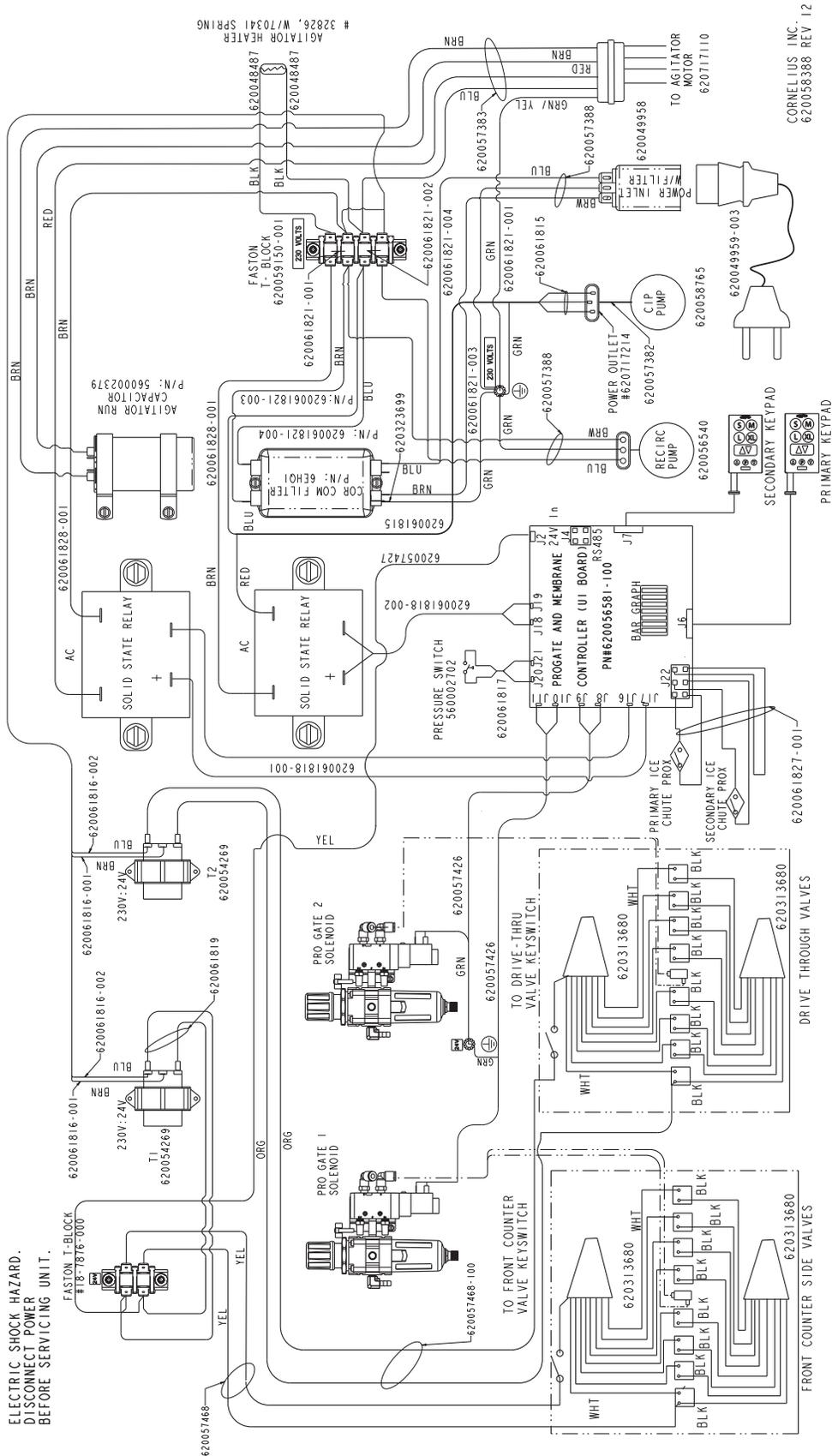


Figure 21.

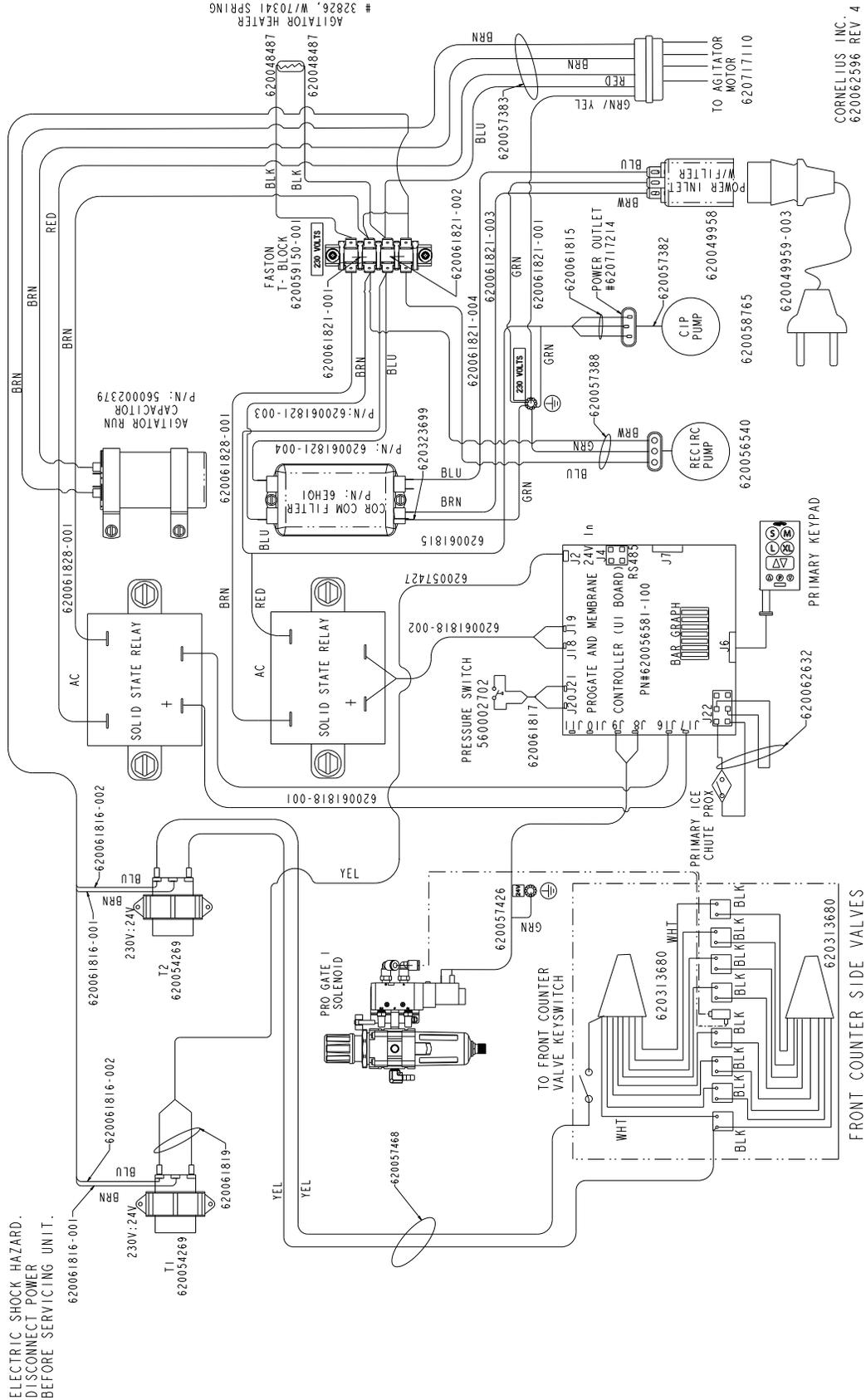
WIRING DIAGRAM - 2 SIDED UNIT



CORNELIUS, INC.
620058388 REV. 12

Figure 22.

WIRING DIAGRAM - 1 SIDED UNIT



ELECTRIC SHOCK HAZARD.
DISCONNECT POWER
BEFORE SERVICING UNIT.

Figure 23.

TROUBLESHOOTING GUIDE

⚠ WARNING:

Only trained and certified electrical, plumbing and refrigeration technicians should service this unit.

All wiring and plumbing must conform to national and local codes. Failure to comply could result in serious injury, death or equipment damage.

⚠ WARNING:

If repairs are to be made to a product system, remove quick disconnects from the applicable product tank, then relieve the system pressure before proceeding. If repairs are to be made to the CO₂ system, stop dispensing, shut off the CO₂ supply, then relieve the system pressure before proceeding.

Failure to keep this area clean may result in injury or equipment damage.

Should your unit fail to operate properly, check the following table under the appropriate symptoms to identify the defect.

Table 1. Dispenser Troubleshooting

Symptom	Cause	Remedy
No ice dispensing from both of the ice chutes.	No AC power to the unit.	Install Power Cord <ul style="list-style-type: none"> A. Connect AC power cord to the unit back-panel socket and to the wall outlet. B. Turn on unit Power switch.
		Check Power Cord Integrity <ul style="list-style-type: none"> A. Plug the AC power cord into a known live AC outlet. B. Measure the voltage at the female cord terminals, it must be 230±10 V. If not, replace the power cord.
		Verify AC Power at Outlet <ul style="list-style-type: none"> A. Check for voltage at the AC wall receptacle. Voltage must be 230±10 V. If not, connect to another wall outlet that is live with 230±10 V.
	No air/CO ₂ is being supplied to the unit.	Correct Low Gas Pressure <ul style="list-style-type: none"> A. Measure the inlet air/ CO₂ pressure at the inlet port of unit. It must be 75 psig. If not, check supply source status and the regulator setting. B. If gas pressure is low, check the regulator setting, then check for any loose connection fittings or for damage to the gas supply hose. Repair as required.



Symptom	Cause	Remedy
None of the valves on either side of the unit are dispensing drinks.	There is no power input to the unit.	Verify AC Power at Outlet A. Check for voltage at the AC wall receptacle. Voltage must be 230±10 V. If not, connect to another wall outlet that is live with 230±10 V.
		Check Power Cord Integrity A. Plug the AC power cord into a known live AC outlet. B. Measure the voltage at the female cord terminals, it must be 230±10 V. If not, replace the power cord.
None of the valves on any one side, either E-Box side or Pump side, is dispensing drink.	No power is being supplied to the valves.	A. Locate the valve key switch on the side of unit. Turn it ON if it is OFF.
Valves designated to dispense carbonated drinks are dispensing only syrup.	The carbonated water inlet line is disconnected from the unit.	A. Reconnect the carbonated water inlet line.
All the valves on any one side of the unit designated to dispense carbonated drinks are dispensing only syrup.	The carbonated water line inlet connection to the flex manifold has been disconnected. <i>(This would be indicated by the continuous flow of water from the water bath into the drip tray.)</i>	A. Reconnect the carbonated water inlet line to the flex manifold.
All the valves designated to dispense plain drinks are dispensing only syrup.	The plain water inlet line has been disconnected from the unit.	A. Reconnect the plain water inlet line to unit.
All the valves on any one side of the unit designated to dispense plain drinks are dispensing only syrup.	The plain water line inlet connection to the flex manifold is disconnected. <i>(This would be indicated by the continuous overflow of water from the water bath.)</i>	A. Reconnect the water inlet line to the flex manifold.



Symptom	Cause	Remedy
<p>Matching valves (valve that dispense the same brand of drinks on both sides of the unit) dispense only plain/ carbonated water.</p> <p><i>(All the corresponding valves (for example: the 1st valves, counted from left to right, on both sides of unit, and the 2nd valves counted from left to right and so on.) dispense only water).</i></p>	<p>The particular syrup inlet line is disconnected from the unit.</p>	<p>A. Inspect and reconnect the syrup line.</p>
<p>Drinks dispensed by all the valves are not of the required quantity (lower/higher volume). As a result, the drinks are too sweet or too diluted to taste.</p>	<p>Pressure in the plain water or the carbonated water inlet is either too high or too low.</p>	<p>A. Check the inlet pressure of carbonated water to the unit; it must be 100 psi for static (still) conditions and 40 psi for dynamic (flowing) conditions. Adjust as needed.</p>
<p>Water is not dispensing from the spigot (faucet).</p>	<p>The line connection from the flex manifold.</p>	<p>A. Repair as required.</p>
	<p>The plain water inlet connection to the flex manifold has been disconnected.</p>	<p>A. Check and reconnect the plain water line.</p>

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