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Installation Manual

ICE/BEVERAGE DISPENSER

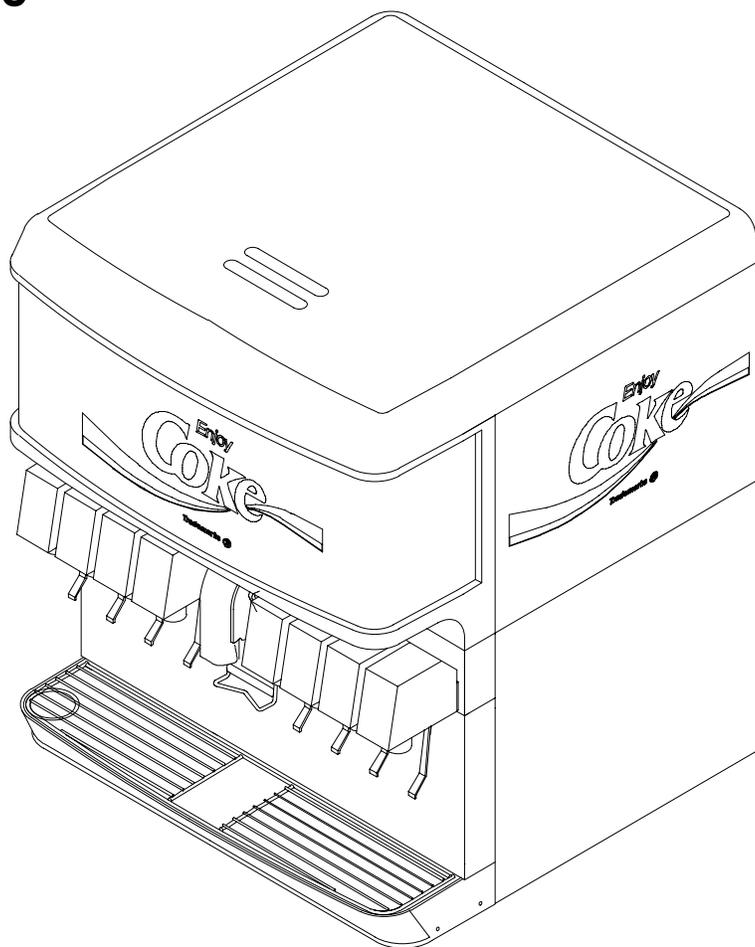
Model: Duraflex 200/250

IMPORTANT:

TO THE INSTALLER.

It is the responsibility of the Installer to ensure that the water supply to the dispensing equipment is provided with protection against backflow by an air gap as defined in ANSI/ASME A112.1.2-1979; or an approved vacuum breaker or other such method as proved effective by test.

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



Part No. 92170INS
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Revision: B

THIS DOCUMENT CONTAINS IMPORTANT INFORMATION

This Manual must be read and understood before installing or operating this equipment

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SAFETY PRECAUTIONS

Always: Disconnect power to the dispenser before servicing or cleaning.

Never: Place hands inside of hopper or gate area without disconnecting power to the dispenser. Agitator rotation occurs automatically when dispenser is energized!

This ice dispenser has been specifically designed to provide protection against personal injury and eliminates contamination of ice. To insure continued protection and sanitation, observe the following:

ALWAYS: Be sure the removable lid is properly installed to prevent unauthorized access to the hopper interior and possible contamination of the ice.

ALWAYS: Be sure the upper and lower front panels are securely fastened.

ALWAYS: Keep area around the dispenser clean of ice cubes.



CAUTION: Dispenser cannot be used with crushed or flaked ice. Use of bagged ice which has frozen into large chunks can void warranty. The dispenser agitator is not designed to be an ice crusher. Use of large chunks of ice which "jam up" inside the hopper will cause failure of the agitator motor and damage to the hopper. If bagged ice is used, it must be carefully and completely broken into small, cube-sized pieces before filling into the dispenser hopper.

DESCRIPTION

The "DURAFLEX" series of ice dispensers solves your ice and beverage service needs in a sanitary, space saving, and economical way. Designed to be manually filled with ice from any remote ice making source, these dispensers will dispense cubes (up to 1-1/4" in size), cubelets, and hard-chipped or cracked ice; and in addition, several flavors of post-mix beverages. The "BC" units include beverage faucets and a cold plate and are designed to be supplied direct from syrup tanks and a carbonator, with no additional cooling required.

SPECIFICATIONS

Model	DF200	DF250
	B (Beverage Faucets)	B (Beverage Faucets)
	C (Cold Plate)	C (Cold Plate)
	Z (No drip tray)	Z (No drip tray)
	N (No Lid)	N (No Lid)
Ice storage	200 pounds	250 pounds
Maximum No. of Beverage Faucets Available	10	10
Cold Plate (Built-In)	Yes, On BC Model Only	Yes, On BC Model Only
Electrical	120/1/60, 3.5 Amps 220-240/1/50-60, 2.0Amps	120/1/60, 3.5 Amps 220-240/1/50-60, 2.0 Amps
Dimensions	30" Wide X 30-11/16 Deep X35-5/8" High	30" Wide X 30-11/16 Deep X39-5/8" High
Z Model:	30" Wide X 23-1/16" Deep X35-5/8" High	30" Wide X 23-1/16" Deep X39-5/8" High

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INSTALLATION INSTRUCTIONS

1. Locate the dispenser indoors on a level counter top.

A. LEG OPTION

Note: Before installing legs, the plastic plugs must be removed.

Unpack the four (4) legs and install them into the threaded holes provided in the bottom of the unit. The installer must provide flexibility in the product and utility supply lines to permit shifting the position of the dispenser sufficiently to clean the area beneath it.

Rotate the line support bracket, located under the base, to the down position and route all the lines above the bracket.

B. COUNTER MOUNTING

The ice dispenser must be sealed to the counter. The MOUNTING TEMPLATE (see Figure 2) indicates where openings can be cut in the counter. Locate the desired position for the dispenser, then mark the outline dimensions on the counter using the MOUNTING TEMPLATE. Cut openings in counter.

Rotate the line support bracket, located under the base, to the up position and route all the lines below the bracket.

Apply a continuous bead of National Sanitation Foundation (NSF) listed silastic sealant (Dow 732 or equal) approximately 1/4" inside of the unit outline dimensions and around all openings. Then, position the unit on the counter within the outline dimensions. All excess sealant must be wiped away immediately.

2. The beverage tubes, drain tube and power cord are routed through the large opening in the bottom of the unit. See the MOUNTING TEMPLATE (see Figure 2), for locating the required clearance hole in the counter for these utility lines.
3. DRIP TRAY DRAIN ASSEMBLY (see Figure 3). Route the drain tube to an open drain with the end of the tube above the "flood" level of the drain. Use the tubing, fittings, and insulation provided with the Dispenser to assemble the drain. The completed drain *must* pitch continuously downward and contain no "traps" or improper drainage will result.

NOTE: This equipment must be installed with adequate backflow protection to comply with Federal, State, and local codes.

4. Connect the beverage system product tubes as indicated in the applicable Flow Diagram (see Figures 4 through 7). This work should be done by a qualified Service Person. Any non-carbonated water tubing *must* be connected to the outlet of the check valve.

NOTE: See applicable Flow Diagram (see Figure 4 through 7) or decal on lower front panel of the unit for the location of syrup and water connections.

NOTE: 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.

5. Clean the hopper interior (see Owner's Manual P/N 92107 for cleaning instructions).
6. Connect the power cord to a 120 volt , 60 cycle, 3-wire grounded receptacle. For 220–240 volt units, a 3-wire power cord is provided. An adapter plug for the particular country will need to be provided by the equipment installer.

GATE RESTRICTOR PLATE



CAUTION: Disconnect power to dispenser before installing, removing or adjusting restrictor.

This plate may be adjusted up or down as shown in Figure 1 to reduce or increase the ice dispensing rate, especially desirable when using glasses or other containers with small openings. Adjustment can be made by sliding the restrictor plate up or down with nuts loosened, to obtain the desired ice dispensing rate.

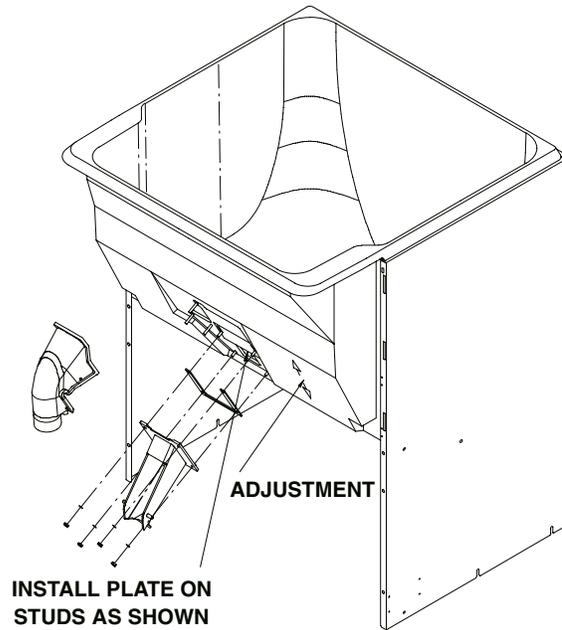


FIGURE 1. GATE RESTRICTOR PLATE

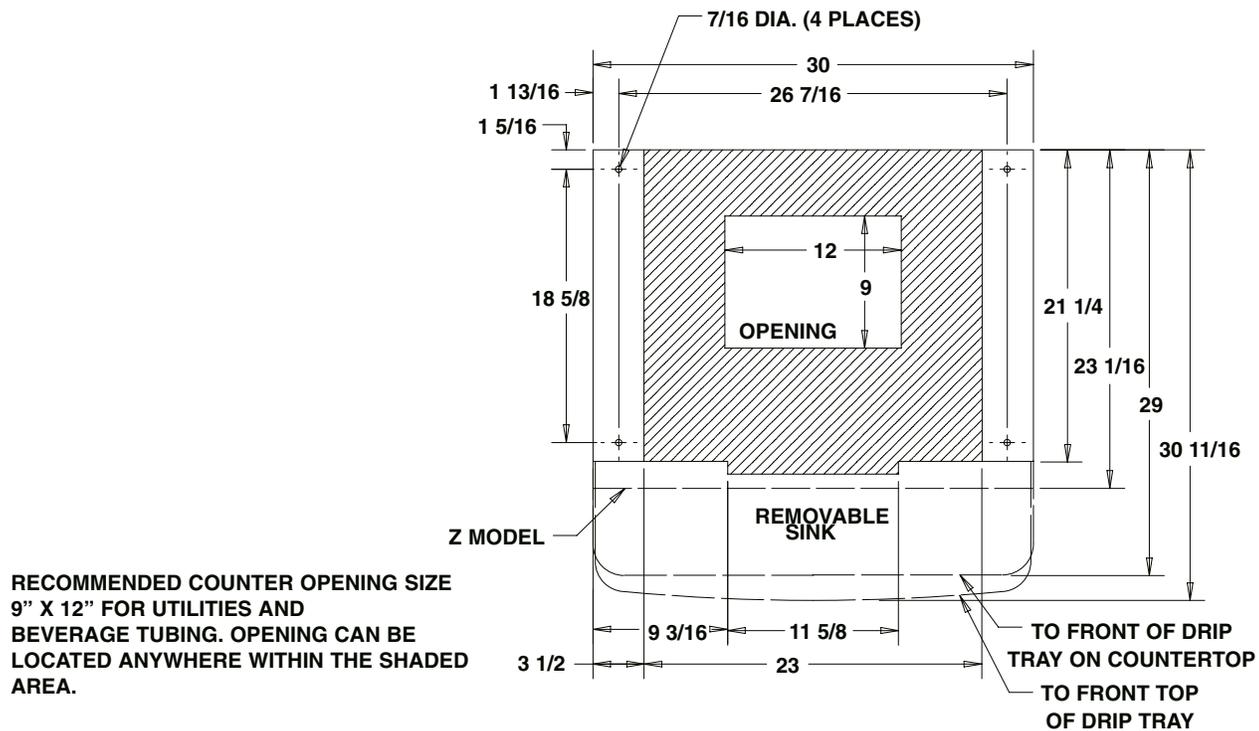


FIGURE 2. MOUNTING TEMPLATE

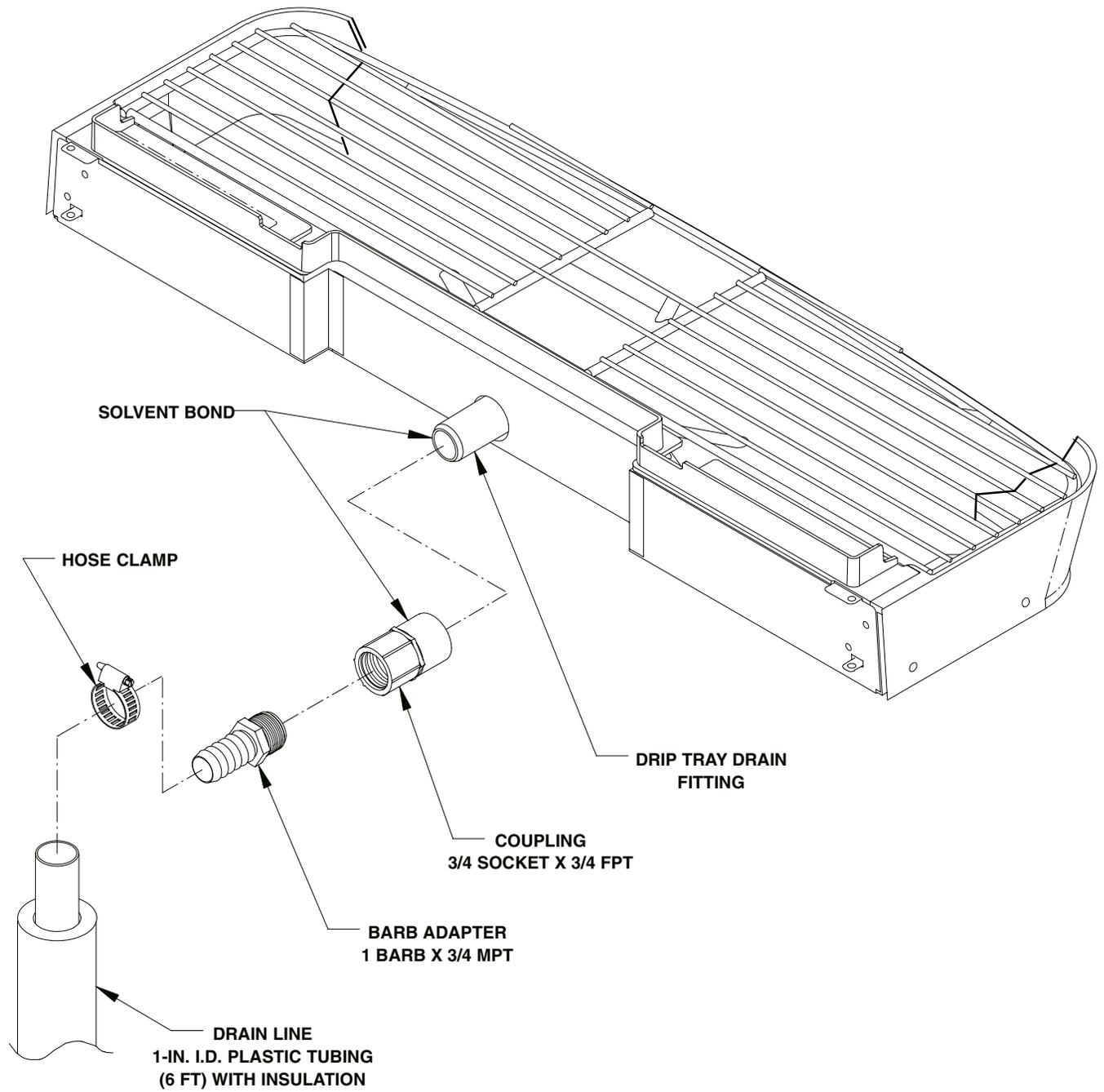


FIGURE 3. DRIP TRAY DRAIN ASSEMBLY

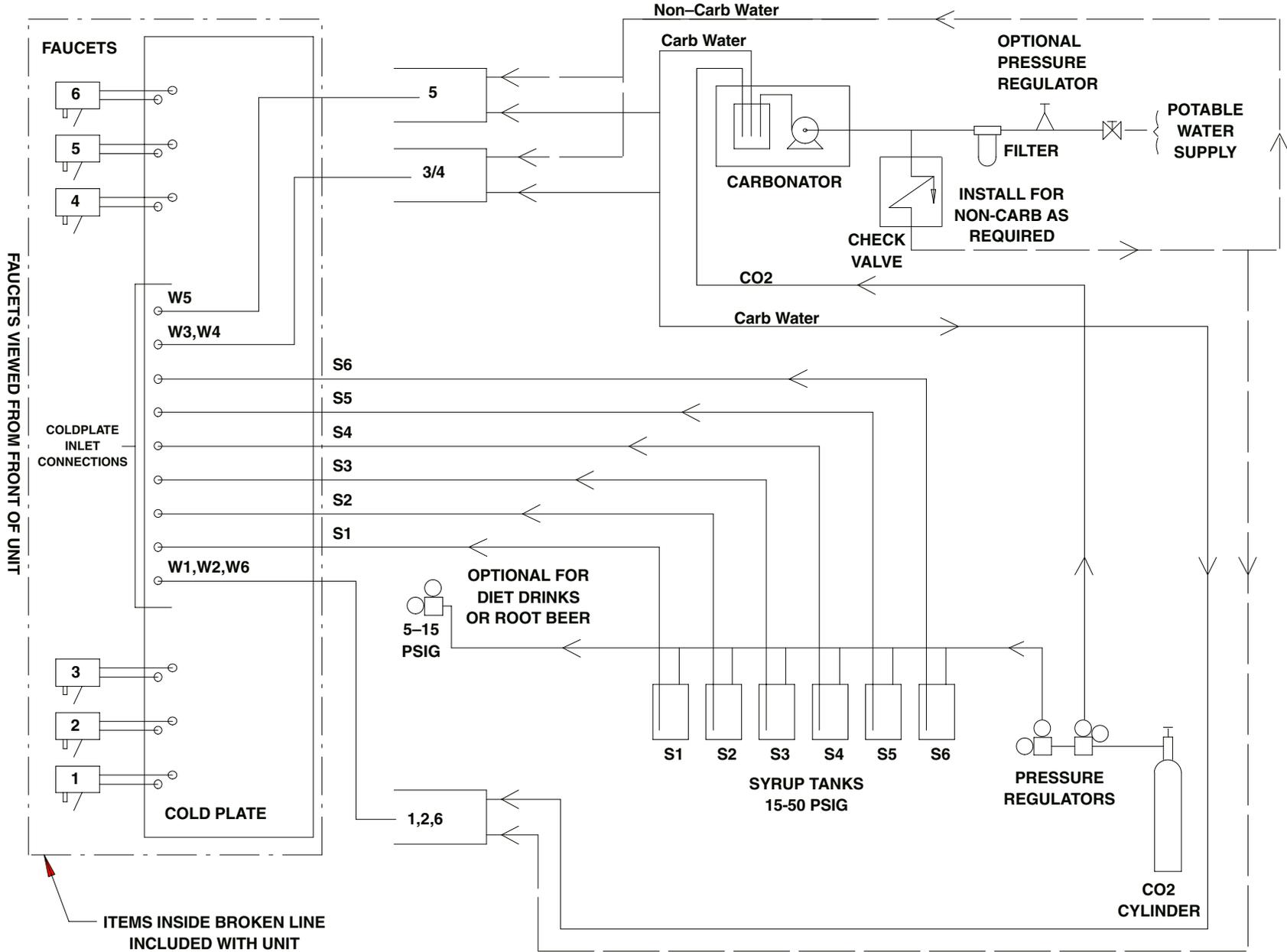


FIGURE 4. BC MODEL (UNIT WITH SIX BEVERAGE FAUCETS)

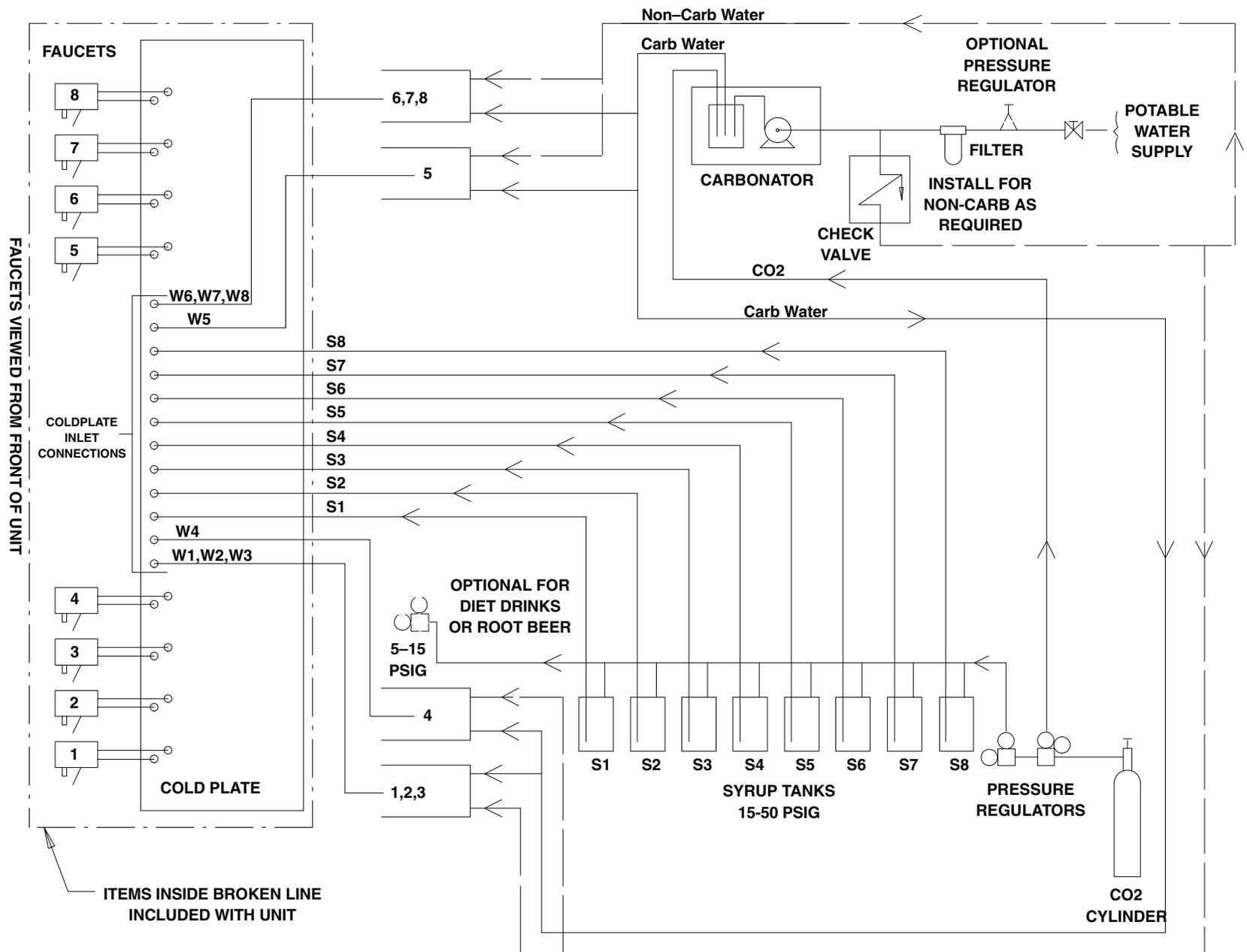


FIGURE 5. FLOW DIAGRAM (UNIT WITH EIGHT BEVERAGE FAUCETS)

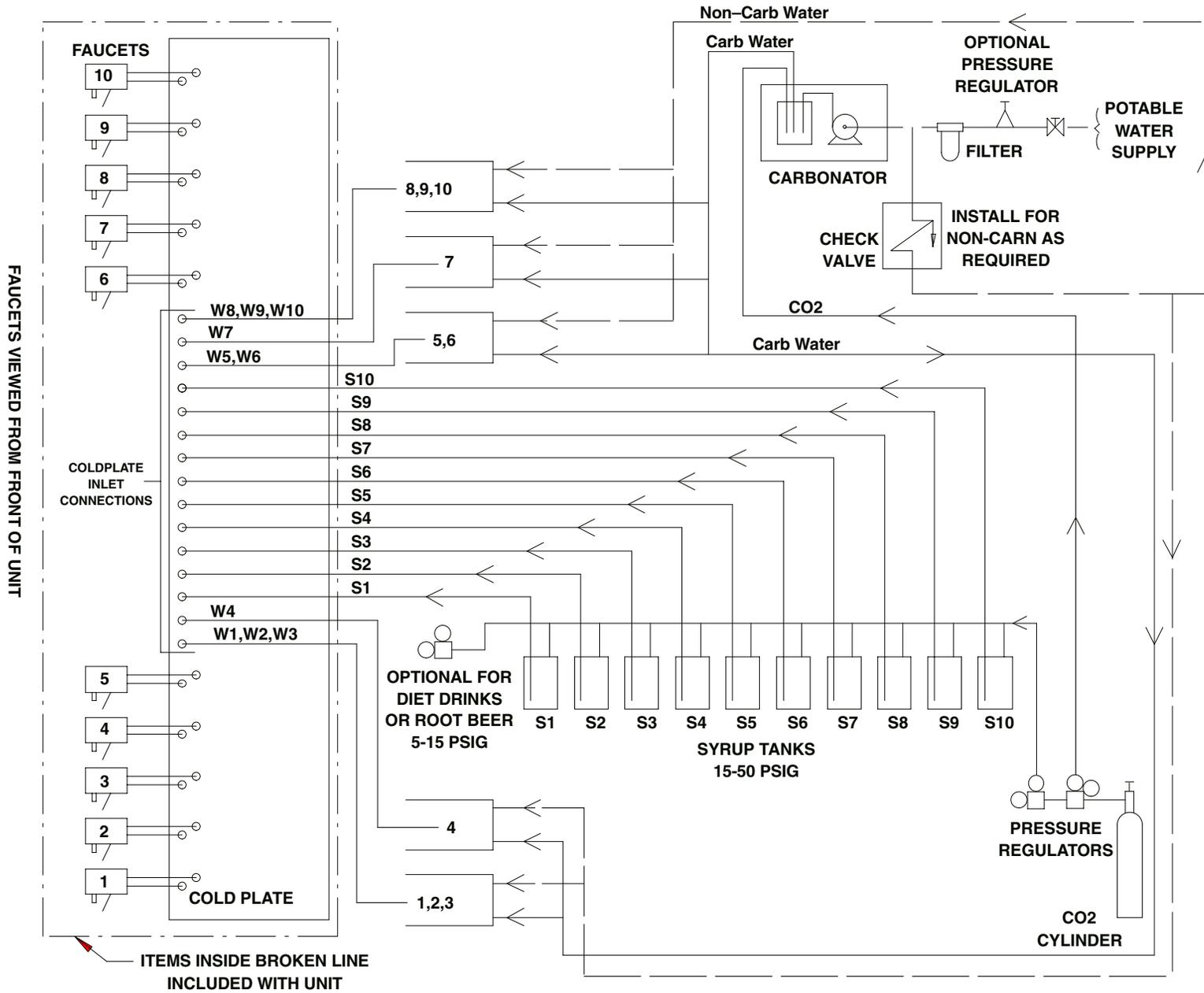
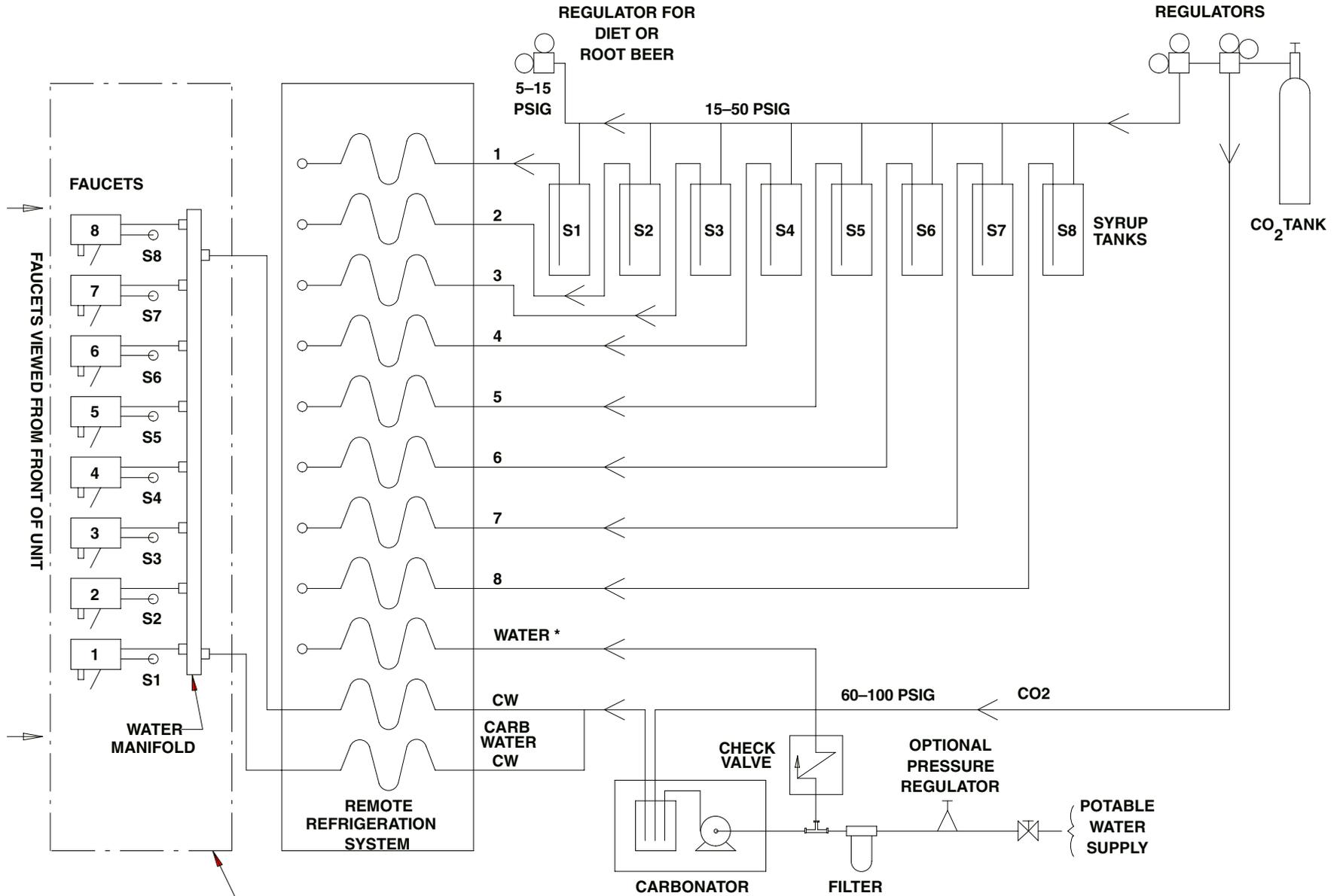


FIGURE 6. FLOW DIAGRAM (UNIT WITH TEN BEVERAGE FAUCETS)



ITEMS OUTSIDE BROKEN LINES ARE NOT INCLUDED WITH UNIT.

FIGURE 7. FLOW DIAGRAM ("B" UNIT)

* - FOR NON-CARBONATED DRINK(S)/PLUG APPROPRIATE WATER MANIFOLD OUTLET.

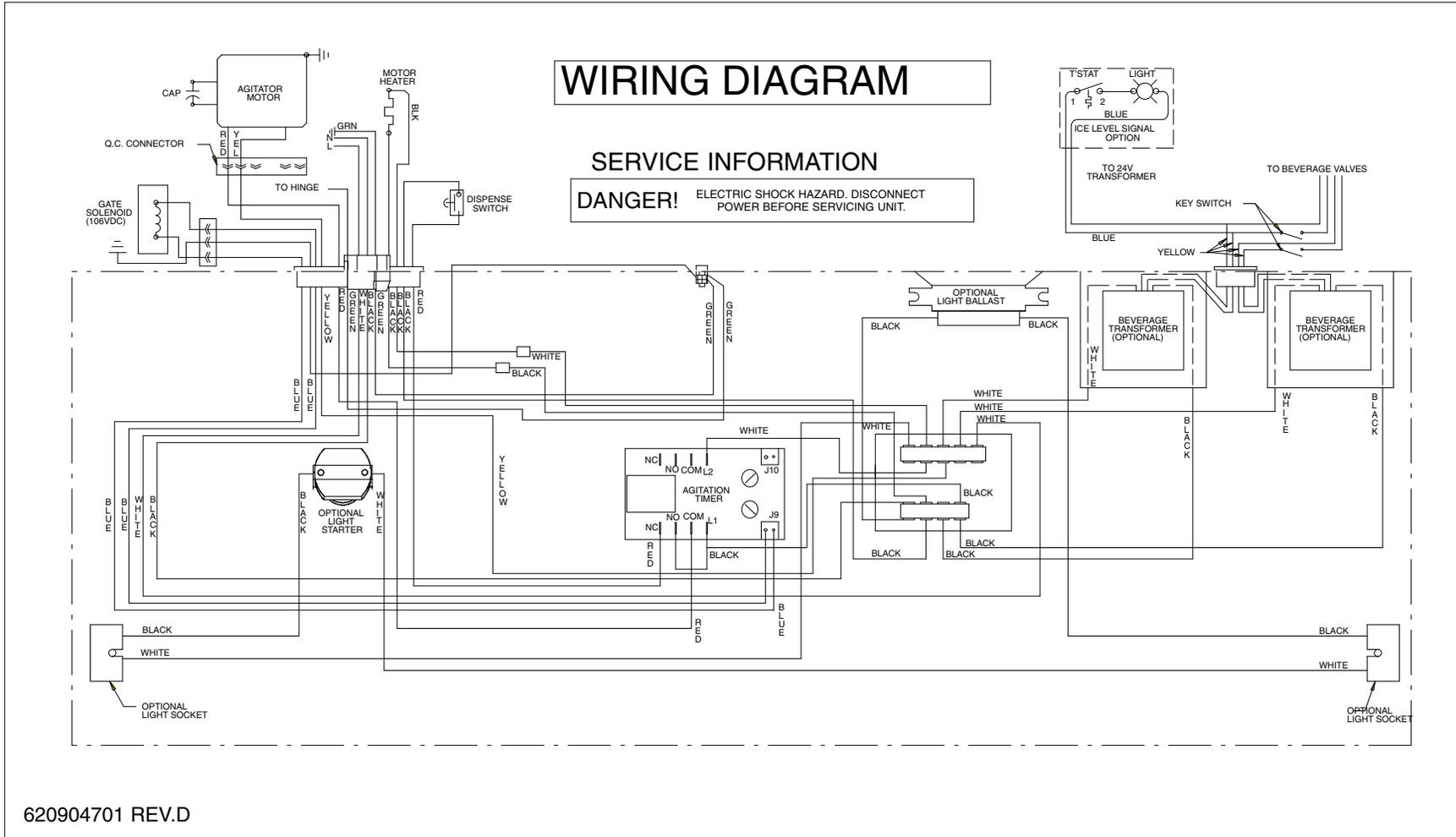


FIGURE 8. WIRING DIAGRAM (115 VOLT UNIT)

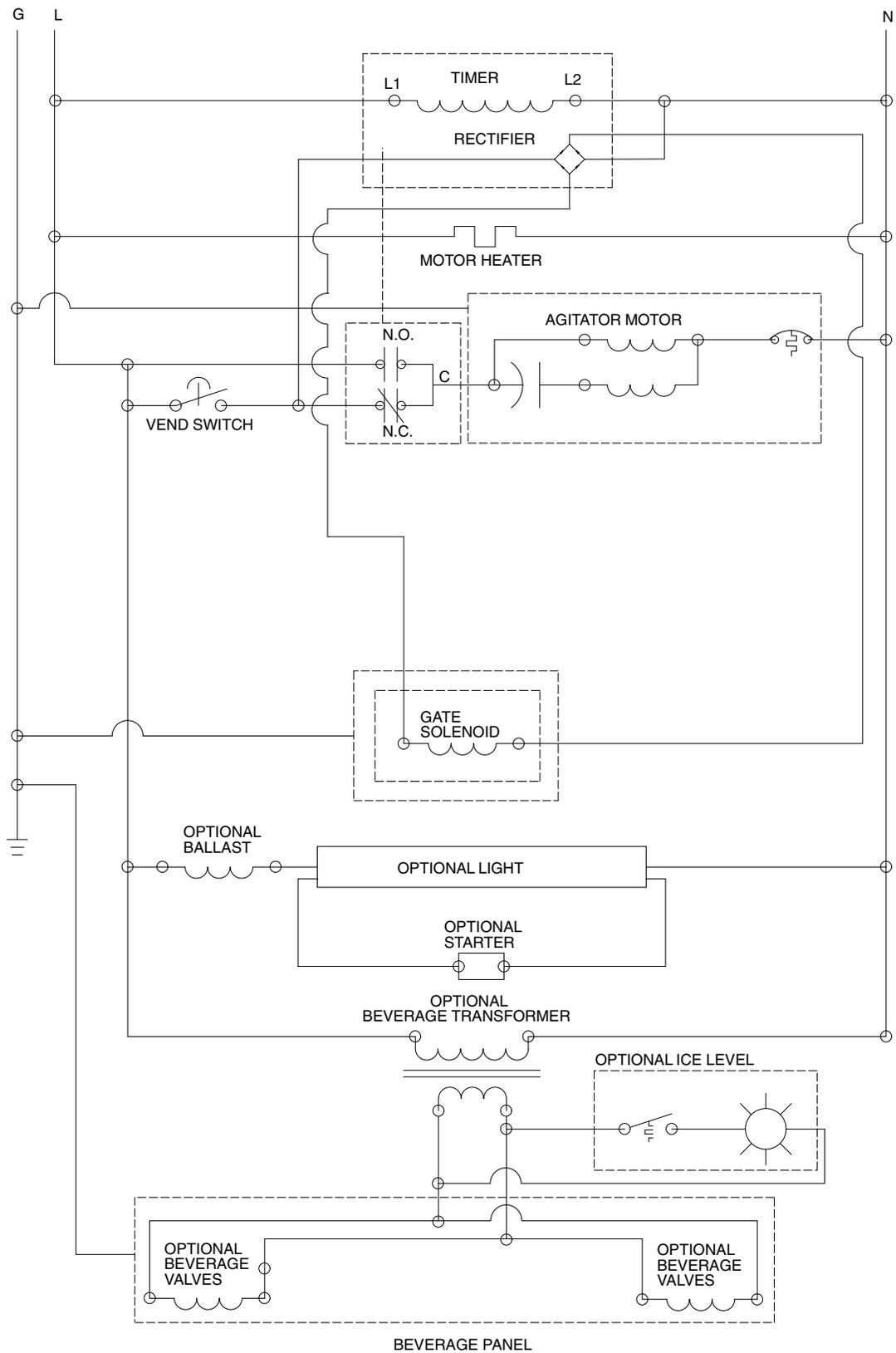


FIGURE 9. SCHEMATIC (115 VOLT UNITS)

SERVICE INFORMATION

DANGER! ELECTRIC SHOCK HAZARD. DISCONNECT POWER BEFORE SERVICING UNIT.

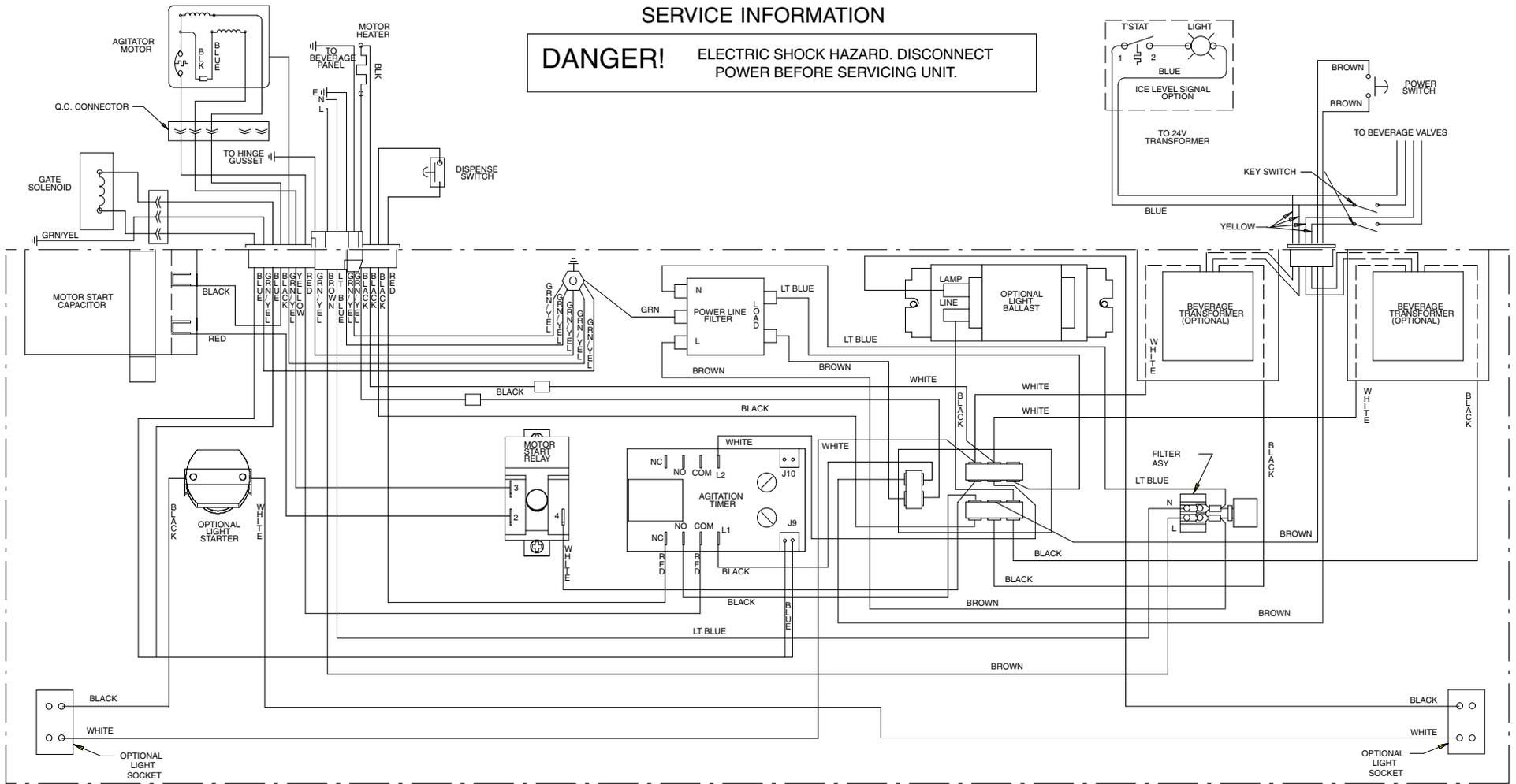


FIGURE 10. WIRING DIAGRAM (220-240 VOLT UNITS)

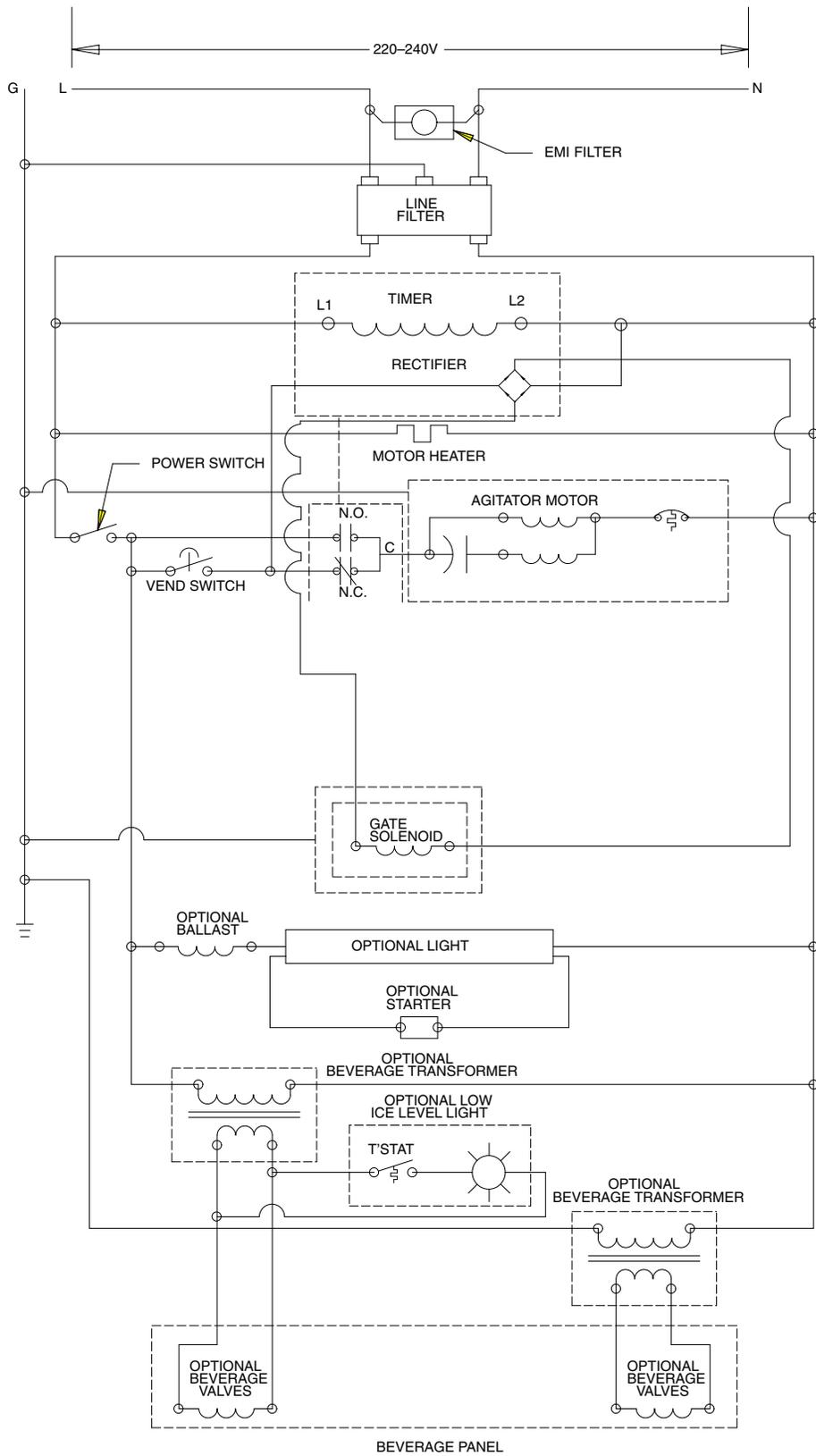


FIGURE 11. SCHEMATIC (220-240 VOLT UNITS)

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TROUBLESHOOTING

IMPORTANT: Only qualified personnel should service internal components or electrical wiring.



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. If repairs are to be made to the refrigeration system, make sure electrical power is disconnected from the unit.

Should your unit fail to operate properly, check that there is power to the unit and that the hopper contains ice. If the unit does not dispense, check the following chart under the appropriate symptoms to aid in locating the defect.

Trouble	Probable Cause
BLOWN FUSE OR CIRCUIT BREAKER.	<ul style="list-style-type: none"> A. Short circuit in wiring. B. Defective gate solenoid. C. Defective agitator motor.
GATE DOES NOT OPEN. AGITATOR DOES NOT TURN.	<ul style="list-style-type: none"> A. No power. B. Bent depressor plate (does not actuate switch). C. Defective dispensing switch.
GATE DOES NOT OPEN OR IS SLUGGISH. AGITATOR TURNS.	<ul style="list-style-type: none"> A. Defective gate solenoid. B. Excessive pressure against gate slide. C. Defective rectifier.
ICE DISPENSES CONTINUOUSLY.	<ul style="list-style-type: none"> A. Stuck or bent depressor plate (does not release switch). B. Defective dispensing switch. C. Improper switch installation.
SLUSHY ICE. WATER IN HOPPER.	<ul style="list-style-type: none"> A. Blocked drain. B. Unit not level. C. Poor ice quality due to water quality or icemaker problems. D. Improper use of flaked ice.
BEVERAGES DO NOT DISPENSE.	<ul style="list-style-type: none"> A. No 24 volt power to faucets. B. No CO₂ pressure.
BEVERAGES TOO SWEET.	<ul style="list-style-type: none"> A. Carbonator not working. B. No CO₂ pressure in carbonator. C. Faucet brix requires adjusting.

Trouble	Probable Cause
BEVERAGE NOT SWEET ENOUGH.	<ul style="list-style-type: none"> A. Empty syrup tank. B. Faucet brix requires adjusting.
BEVERAGES NOT COLD (UNITS WITH BUILT-IN COLD PLATE).	<ul style="list-style-type: none"> A. Unit standing with no ice in hopper or no ice in cold plate cabinet.

Contact your local syrup or beverage equipment distributor for additional information and troubleshooting of beverage system.

WARRANTY

IMI Cornelius Inc. warrants that all equipment and parts are free from defects in material and workmanship under normal use and service. For a copy of the warranty applicable to your Cornelius, Remcor or Wilshire product, in your country, please write, fax or telephone the IMI Cornelius office nearest you. Please provide the equipment model number, serial number and the date of purchase.

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