INSTALLATION INSTRUCTIONS

FCB 4 Flavor Plumbing

The following instructions should be used for installation of the CO_2, Water, and Syrup plumbing for a Pinnacle or V-Series 4 Flavor FCB unit at a maximum distance of 50 feet from the unit. Prior knowledge of the FCB Installation/Service Manual is necessary before attempting the installation.

Parts List

Item	Description	Quantity
1	1/2" - 3/4" Hose Barb to MPT	1
2	1/4" Flow Washer	2
3	1/4" Female Flare Swivel Nut	2
4	1/4" Stem Barb	2
5	1/4" Tee Barb	1
6	1/4" Cross Barb	1
7	1/4" - 1/4" Hose Barb Splice	1
8	1/4" - 3/8" Hose Barb Splice	4
9	3/8" - 1/2" Hose Barb Splice	1
10	17.0 Oetiker .669 O - .571 C	20
11	12.3 Oetiker .490 O - .386 C	25
12	21.0 Oetiker .826 O - .700 C	3
13	11” Cable Tie	10
14	1/4" ID Braided Tubing	100 Ft
15	3/8" ID Braided Tubing	200 Ft
16	1/2" ID Braided Tubing	50 Ft
17	3/8” Flexible Tygon Tubing	24 Ft

Tools Required

- Adjustable Wrench
- Oetiker Pliers
- Tube Cutters for Beverage Tubing

Additional Items Required

- BIB Disconnects
- BIB Pumps
- BIB Rack
- CO_2 Regulators
- Water Filter

Refer to TP01068 for IMI Cornelius part numbers of Additional Items in list above.

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Requirements

Pinnacle

CO_2	60 psi minimum at the unit
Water	25 psi minimum flowing pressure at the unit with 3.34 gallons per minute flow rate (200gph) per 4 barrels. If the flowing pressure and flow rate are less than specified, a water pressure booster is required. See note below.
Syrup	60 psi minimum static at the unit and 45 psi minimum flowing pressure with 0.35 ounces per second flow rate (0.17gpm)
Clearances	Refer to Installation/Service Manual

V-Series

CO_2	80 psi minimum at the unit
Water	16 psi minimum flowing pressure at the unit with 3.34 gallons per minute flow rate (200gph) per 4 barrels. If the flowing pressure and flow rate are less than specified, a water pressure booster is required. See note below.
Syrup	80 psi minimum static at the unit and 65 psi minimum flowing pressure with 0.35 ounces per second flow rate (0.17gpm)
Clearances	Refer to Installation/Service Manual

Water Requirement Note: When testing the water supply to the FCB machine the installer must take into consideration the total potential water demand that may be placed on the store water supply by all equipment within the store.

Equipment such as fountain dispensers, icemakers, coffee brewers, and juice dispensers typically draws water from a common source/filter system. The FCB machine must be supplied with water to the specification above at all times, even when any of the other equipment is drawing water. If the operation of the other appliances reduces the flow rate of water to this FCB unit below 3.34gpm (200gph), add the required water booster.

WARNING – Secure the CO_2 cylinder in an upright position with a safety chain to prevent it from falling over and causing personal injury and property damage.

WARNING – CO_2 displaces oxygen. Persons exposed to high concentrations of CO_2 will experience tremors, followed by loss of consciousness and death. It is very important to prevent CO_2 leaks, especially in small, unventilated areas. If a CO_2 leak occurs ventilate the area before fixing the leak.

NOTE: Tubing, hoses, and cabling may be routed from beneath or in back of the Pinnacle FCB unit and ONLY from beneath the V-Series unit. It may be necessary to make a penetration in the counter or wall to accommodate the desired installation.

NOTE: If the syrup lines will be routed in an area that will see temperatures less than 55°F the lines must be insulated.

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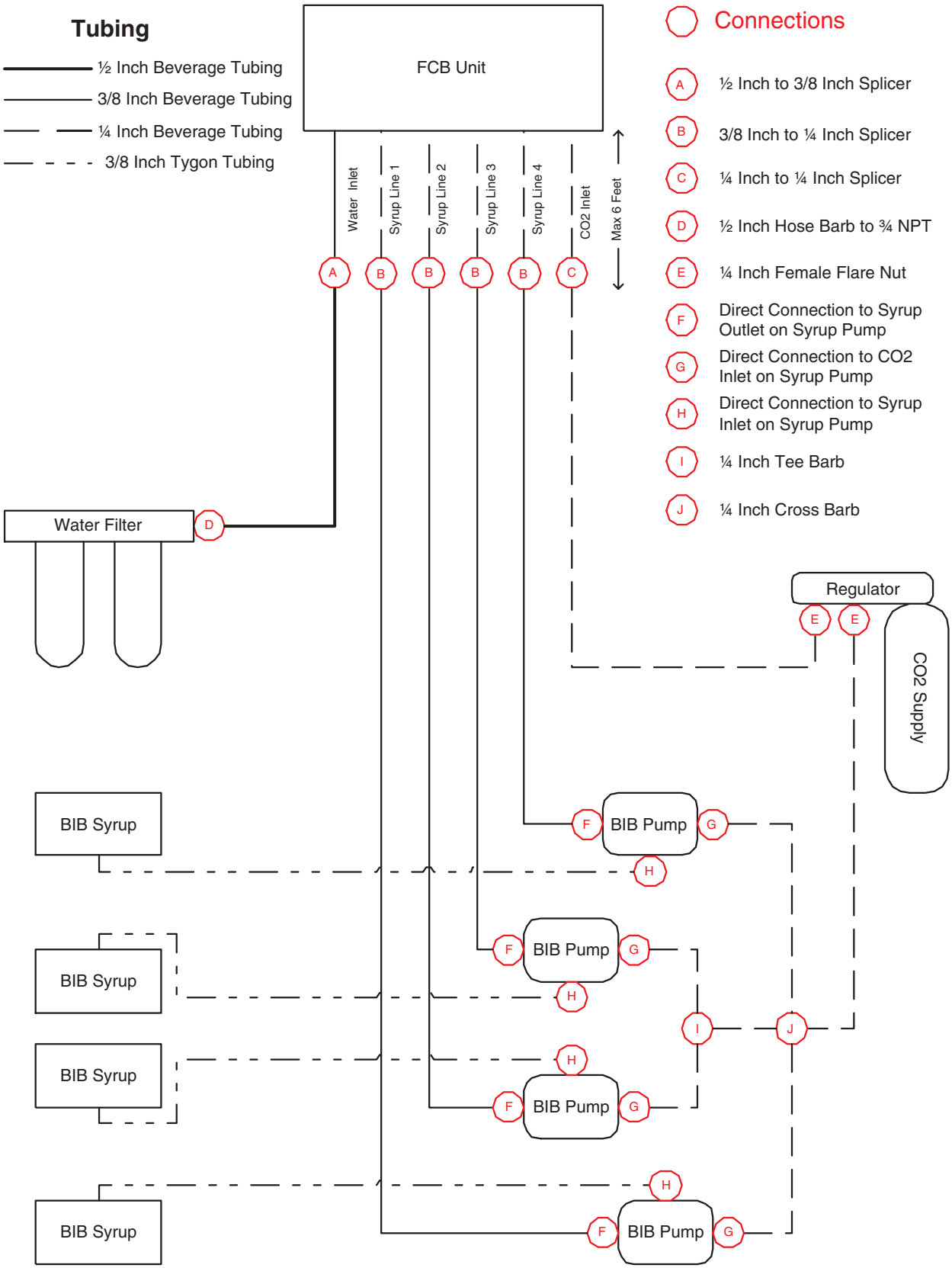
Tubing
½ Inch Beverage Tubing
3/8 Inch Beverage Tubing
¼ Inch Beverage Tubing
3/8 Inch Tygon Tubing
FCB Unit
Water Inlet
Syrup Line 1
Syrup Line 2
Syrup Line 3
Syrup Line 4
CO2 Inlet
Max 6 Feet
Connections
A ½ Inch to 3/8 Inch Splicer
B 3/8 Inch to ¼ Inch Splicer
C ¼ Inch to ¼ Inch Splicer
D ½ Inch Hose Barb to ¾ NPT
E ¼ Inch Female Flare Nut
F Direct Connection to Syrup Outlet on Syrup Pump
G Direct Connection to CO2 Inlet on Syrup Pump
H Direct Connection to Syrup Inlet on Syrup Pump
I ¼ Inch Tee Barb
J ¼ Inch Cross Barb
Water Filter
Regulator
CO2 Supply
BIB Syrup
BIB Syrup
BIB Syrup
BIB Syrup
BIB Pump
BIB Pump
BIB Pump
BIB Pump