



This appliance is designed for commercial use. Any servicing other than cleaning and maintenance should be performed by an authorized Wilbur Curtis Co., Inc. service technician.

WILBUR CURTIS Co., INC.

- Do NOT immerse the unit in water or any other liquid
- Never clean with scouring powders, bleach or harsh chemicals.

Symbols:



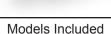
WARNINGS - To help avoid personal injury



Important Notes/Cautions



Sanitation Requirements



- TCC1N
- TCC2N
- TCC3N



NOTE: Water source pressure must be a minimum of 30 PSI pressure at all times to insure the quality of the of the product.

Curtis TCCN Units are Factory Pre-Set and Ready to Go... Right From the Box.

Generally there will never be a reason to change factory settings. However, should you need to make slight adjustments to meet your tea needs, adjustment instructions are provided later in this manual

System Requirements:

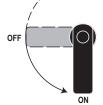
- Water Source 30 90 PSI (Minimum Flow Rate of 1 GPM). If incoming water supply is greater than 90 PSI, additional regulation is required to meet the range.
- Water pipe connections and fixtures directly connected to a potable water supply shall be sized, installed and maintained in accordance with federal, state, and local codes.

SETUP STEPS

The unit should be level (left to right and front to back), located on a solid counter top. Connect a water line from the water filter to the TCCN tea dispenser. NOTE: Some type of water filtration device must be used to maintain a trouble-free operation. (In areas with extremely hard water, we suggest that a sedimentary and taste & odor filter be installed.) This will prolong the life of your system and enhance tea quality.

INSTALLATION

- 1. Remove dispenser from carton.
- 2. Run a water line to the inlet fitting behind the dispenser. Flush the new water-line to remove foreign particles.



- 3. Connect a ¼" flared flexible or copper waterline to the male fitting on the back of the dispenser.
- 4. Locate the water supply valve behind the unit to verify position is turned on.



CAUTION: We recommended that the water supply valve, behind unit, be turned off during non-business hours.



NSF International requires the following water connection:

- 1. A quick disconnect or additional coiled tubing (at least 2x the depth of the unit) so that the machine can be moved for cleaning underneath.
- 2. This equipment is to be installed with adequate backflow protection to comply with applicable federal, state and local codes..
- 3. Water pipe connections and fixtures directly connected to a potable water supply shall be sized, installed and maintained in accordance with federal, state, and local codes.
- 5. Clean out the tea concentrate system before using the TCCN tea dispenser. Use a BIB (Bag-in-Box) style cleaning solution to simplify the cleaning procedure. A cleaner like BevClean beverage line cleaner comes in a 3 gallon bag-in-box that connects directly to your bag-in-box system for line cleaning (http://bevclean.com).
 - a. Place the BIB cleaner container next to the TCCN tea dispenser. Pull the spout from the cleaner box through the marked area. Remove the clear travel cap from spout. Don't worry about cleaner spilling when the cap is removed. The spout has an internal seal.
 - b. From the TCCN tea dispenser, pull out the hose with the QCD (bag connector).

ISO 9001:2008 REGISTERED

Wilbur Curtis Co., Inc. 6913 West Acco Street Montebello, CA 90640-5403 For the latest information go to www.wilburcurtis.com

Tel: 800-421-6150 Fax: 323-837-2410

- c. Grasping the bag connector (as shown in Load Product, step 6), push the sliding probe all the way into the bag spout. A "click" will be heard when it is fully inserted.
- d. Once the cleaning solution box is connected, open the dispensing valve on the dispenser and run liquid through the valve until the clear cleaner liquid is detected. The dispensing line is now clean.
- e. Disengage the bag connector by snapping the connector probe out and remove the connector from the spout.
- f. Attach a tea concentrate BIB.
- g. Open the dispensing valve on dispenser. Allow liquid to flow until only tea flows, no clear liquid.

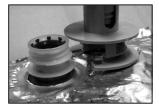
LOAD PRODUCT

- 1. Place a tea concentrate bag on the counter next to the TCCN tea dispenser.
- 2. Remove the top cover from the TCCN tea dispenser and pull out the hose with the QCD bag connector.

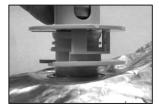




Pull off the shipping cap that covers the spout on the bag.



4. Place the QCD next to the spout.



Slide QCD sideways, over the bag spout. QCD snaps in place.



 Push QCD plunger into bag spout until plunger top is flush with top of QCD. A "click" will be heard when it is fully inserted.

- 7. Carefully lift the bag and set the bag into the dispenser.
- 8. Rest tubing on top of the bag..
- 9. Replace the top cover.
- 10. Dispense beverage from faucet until darker product starts to appear (~5 seconds).
- 11. The TCCN tea dispenser is now ready to serve tea.

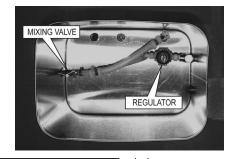
WATER PRESSURE AND MIXING VALVE

The tamper-proof index mark (on the 'adjustment knob-to-body' threads of the pressure regulator) is a factory calibrat-

ed, pressure setting. The pressure regulator should rarely be changed. Primary taste / brix adjustments should be done via the mixing valve by turning the rod and tasting the finished product. 98% of flavor adjustments should be done in this manner.

The purpose of the regulator is to provide uniform water pressure so the venturistyle mixing device can produce a stable and uniform blend of concentrate and water and, also to protect the hydraulics of the dispensing unit from "line pressure". It is not the primary adjustment for the brix level. From our testing, it has been shown that exact PSI on the gage does not directly correlate to a brix level from unit to unit and from installation location to installation location.

Secondarily, if the primary adjustment doesn't provide the ideal brix level, call Curtis Care for instructions on how to adjust the regulator. As a rule, very little taste adjustment is achieved via the pressure regulator.



FACTORY SETTING
IS 15 PSI

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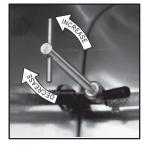
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CAUTION: Do Not Exceed 25 psi (static). Equipment failure or leakage will result.

MIXING VALVE ADJUSTMENT:

For customers who wish to adjust the flavor of the drink, the mixing valve changes the water to concentrate ratio. This valve is very sensitive. Only slight rotation of the mixing rod is needed to change the ratio (1/16th to 1/8th of a turn). The standard setup, as the unit comes from the factory, is approximately 7:1 ratio, which will give you a 5 to 8 percent brix based on the sweet tea concentrate.

- 1. To adjust the valve, tilt the dispenser on it's side.
- 2. Look underneath the unit and locate the adjusting rod.
- 3. Turn counter-clockwise for stronger drink turn clockwise for weaker drink. Taste the tea with each adjustment to determine the desired consistency.





CAUTION – Do not rotate adjusting rod more than 2 full turns from closed position. More turns will cause the adjustment rod to disengage from the mixing valve, with a resulting leak.

CLEANING STRAINER CLEAN-OUT

- 1. Turn off the water flow running from the facility to the strainer.
- 2. Use pliers to grab the housing of the strainer and with an adjustable wrench, remove the cap.
- 3. Take out the wire strainer and clean out the contents. Use a spiral bristled brush to clean inside the strainer.
- 4. Rinse the strainer and replace it into the housing.
- 5. Return the cap to the housing and turn on the water line.

DAILY CLEANING

Regular cleaning of the TCCN tea dispenser is essential in maintaining the highest quality iced tea your equipment is capable of producing. Prepare a mild cleaning solution of dish washing detergent and warm water.

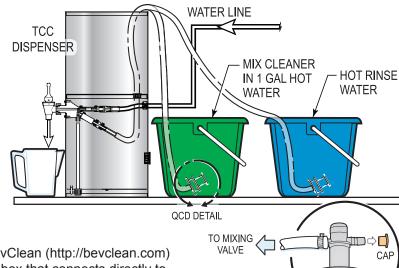
- 1. Wipe any spills, dust or debris from the exterior surfaces, with a damp cloth. Apply a stainless steel polish to prevent scratches.
- 2. Turn off water supply at valve behind unit.
- 3. Open the dispensing faucet to relieve pressure in the dispensing lines.
- 4. Remove the top cover and clean with the cleaning solution.
- 5. Clean the faucet assembly.
 - a. Remove the handle/seat cup assembly from the faucet by holding the bonnet and unscrewing.
 - b. Clean the faucet cap and silicone seat cup assembly.
 - c. Use a spiral brush soaked in cleaning solution to clean inside the faucet body.
 - d. Run the brush through the adapter on the body of the dispenser.
- 6. Rinse and dry parts that were removed. Assemble the dry parts onto the unit.

WEEKLY CLEANING & SANITIZING

Use a concentrated cleaning solution to simplify the cleaning procedure. This procedure requires a one gallon container of a cleaning solution containing hot water and a granulated concentrated cleaner (a cleaner like Coffee Dispenser Cleaner Corporation #12580, Urnex or equivalent) and a one gallon container of clean hot water.

- Turn on water supply to the dispenser.
- Remove the quick disconnect from the tea concentrate bag.
- Pull the cap off of the QCD (see detail drawing) and place this end of the line into the container containing the cleaning solution.
- 4. Place a large empty container under the dispenser faucet.
- Open the front faucet and dispense at least half of the cleaning solution.

- Allow the dispenser to sit overnight before flushing cleaning solution.
- Flush the system by filling a one gallon container
 with clean hot water (no cleaning solution) and open
 the faucet and dispense at least one gallon of the
 hot water or until all the cleaning solution has been
 flushed from the system.
- Remove the QCD from the flushing container and replace the cap. Reconnect the QCD to the Bag in the Box tea concentrate and dispense several cups to prime the concentrate line or until consistency of the product is correct.



SANITIZING

Use a Bag-in-Box style cleaning solution to simplify the sanitizing procedure. A product like BevClean (http://bevclean.com) beverage line sanitizer comes in a 3 gallon bag-in-box that connects directly to your bag-in-box system for line sanitizing.

- 1. Remove the quick disconnect from the tea concentrate bag.
- 2. Place the BIB sanitizer container next to the TCC tea dispenser. Pull the spout from the sanitizer box through the marked area. Remove the clear travel cap from spout. Don't worry about spilling sanitizer when the cap is removed. The cap has an internal seal.
- 3. Snap the QCD bag connector onto the bag spout.
- 4. Grasping the bag connector (as shown in Load Product, step 6), push the sliding probe all the way into the bag spout. A "click" will be heard when it is fully inserted.
- 5. Once the cleaning solution box is connected, open the dispensing valve on the dispenser and run liquid through the valve until the sanitizer (clear liquid) is detected.



DO NOT FLUSH. Allow the sanitizing solution to sit in the tea lines overnight before proceeding with line flushing steps 6 through 8, below.

- 6. Remove the QCD from the BIB cleaner. Unsnap the connector probe, pulling out and removing the connector from the spout.
- 7. Reattach the tea concentrate BIB product.
- 8. Open the dispensing faucet in front of the dispenser and allow water to run out until tea flows from the faucet.
- 9. Repeat the process for any additional faucets on dispenser.

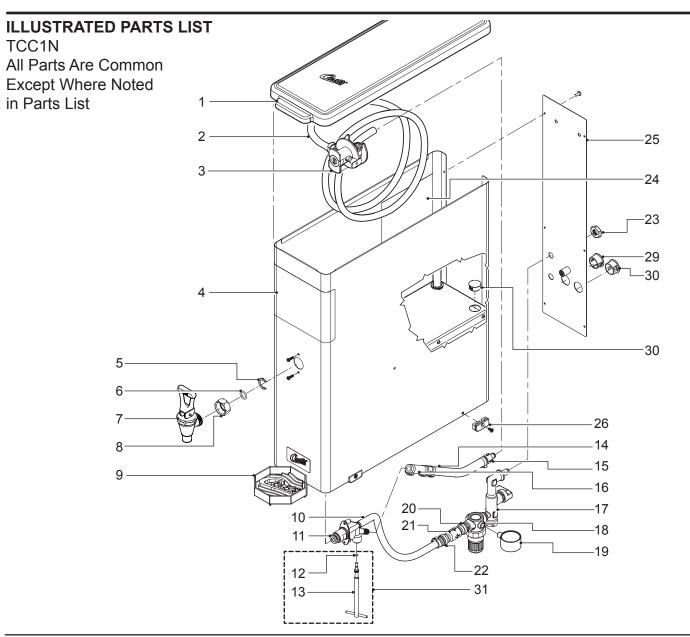
Note: Muliti-outlet manifolds are available for sanitizing up to eight beverage lines with one bag-in-box sanitizer. This allows you to clean all systems at one time.

TEA TIPS

- 1. Never hold finished dispensed tea for more than eight hours at room temperature. Discard any unused tea after eight hours
- 2. Dispense only enough tea that you reasonably expect to sell within a few hours.
- 3. To protect tea flavor and to avoid bacterial contamination and growth, clean and sanitize tea brewing, storage and dispensing equipment at least once a day.

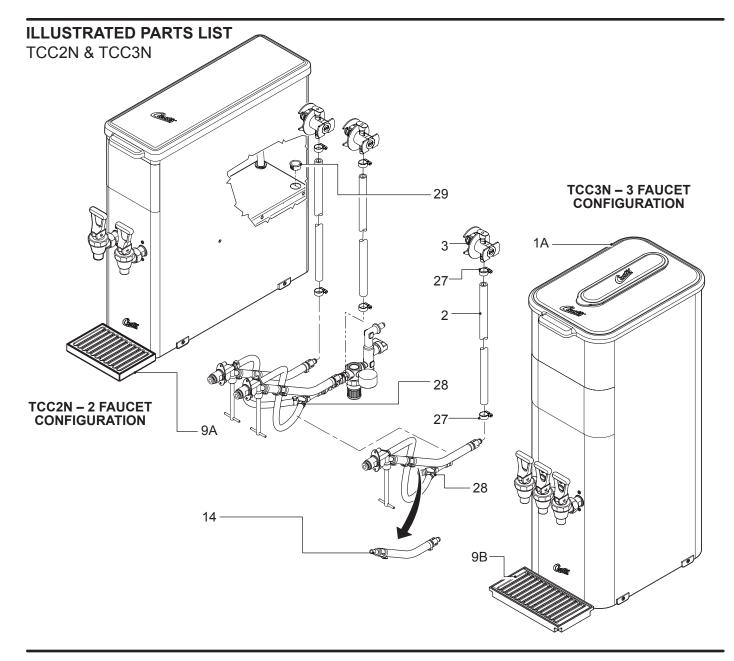


WARNING DO NOT refrigerate unused tea overnight for later consumption.



ITEM N°	PART N°	DESCRIPTION
1	WC-56043	LID, TCC1N & TCC2N
1A	WC-5683	LID, ASSEMBLY TCC3N
2	WC-53116	TUBE, CLEAR BEV 3/8 SWEETEN SYSTEM
3	WC-8653	QCD, LIQUID BOX BAG CONNECTOR
4	WC-38471	LABEL, GENERIC TCO
5	WC-1906	C' RING
6	WC-4320	O' RING .487 ID X .103 CS
7	WC-1829	FAUCET, ASSY TCC BLK PLST
8	WC-1903	NUT, UNION SHANK
9	WC-5686	DRIP TRAY, OCTAGON STYLE TCC1N
9A	DT-06	DRIP TRAY, 6 INCH TCC2N
9B	DTP-08	DRIP TRAY ASSEMBLY, PLASTIC TCC3N
10	WC-53113	TUBING, .25 ID x .50 OD BRAIDED SLCN
11	WC- 894	VALVE, MIXING
12	WC-43084	O' RING, .070" ID x .070W BUNA-N TCCs
13	WC-29069	ROD, ADJUSTABLE MIXING VALVE TCCs
14	WC-37288	KIT, CHECK VALVE AND INSTRUCTIONS

ITEM No	PART N°	DESCRIPTION
15	WC- 810-102	VALVE, CHECK 3/8 X 3/8 BARBED NYLON
16	WC-53114	TUBING, .375" ID X .625" OD BRAIDED
17	WC-12011	VALVE, ANGLED STRAINER
18	WC- 811-101	REGULATOR, PRESSURE 1/4" 0-50 PSIG
19	WC- 569	GAUGE, REGULATOR 0-30 PSI
20	WC-2451	ADAPTER, 3/8 OD STEM X 1/4 NPTF
21	WC-2452	VALVE, CHECK 3/8 OD TUBE X 3/8 OD TUBE
22	WC-2445	STEM, 3/8 BARB X 3/8 STEM SWTNR SYS
23	WC-4279	NUT, 7/16-20 UNF-2B THREAD
24	WC-38466	LABEL, IMPORTANT WEEKLY CLEAN
25	WC-61634-102	COVER, BACK
26	WC-3531	LEG, PLASTIC GLIDE
27	WC-43002	CLAMP, HOSE SNAP NYLON .525/.605
28	WC-2219	Y-FITTING, BARB $\frac{1}{4}$ x $\frac{1}{4}$ wht TCC2N/3N
29	WC-43137	BUSHING, SNAP .672" TCC's
30	WC-1433	PLUG, DOME .875" HEYCO
31	WC-37312	KIT, ADJUSTING ROD & O-RING TCC'S TEA



DOs and DON'Ts

INSTALLATION

- 1. Do connect dispenser to a filtered waterline.
- 2. Do flush filters before connecting to dispenser.
- 3. Do sample finished drink before making adjustments.
- 4. Do make very slight drink adjustments then sample.
- 5. Don't forget to flush filters before installation.
- Don't make any pressure regulator adjustments on dispenser (Do NOT attempt to adjust the regulator. If a regulator adjustment is required call CURTIS CARE).
- 7. Don't forget to get sample approval from customer.

OPERATION

- 1. Do fully activate faucet handle when dispensing drinks.
- 2. Do clean & sanitize dispensing assembly monthly.
- 3. Do keep dispenser primed with concentrate at all times.
- 4. Do reload immediately when out of concentrate.
- 5. Do flush and clean lines regularly.
- 6. Don't forget to clean & sanitize faucet seat cup
- Do follow all cleaning and sanitizing procedures.
 Remove and store tea concentrate if dispenser will
 not be used for an extended period of time; ie: more
 than two days.

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Difficulty priming the TCC tea dispenser.	Adjusting rod on mixing valve is turned in too far.	Open up the valve 1/4 turn counter clockwise.
Tea does not dispense from faucet.	Water line is turned off.	Turn on water line valve.
Only water flowing from fau-	Tea concentrate BIB is out of product.	1. Replace the tea concentrate BIB.
cet, no tea.	2. The tea BIB line is kinked.	Trace the tea line and straighten out kinked hose.
	3. The tea BIB line is clogged.	Blow out hose to clean blockage or replace with a new hose.
	The check valve in the tea concentrate line may be stuck closed.	Loosen the clamps and remove the check valve. Clean or replace it.
	The adjustment screw may be turned in or closed.	Open the mixing valve to resume product flow.
Faucet is dripping constantly.	The faucet seat cup may have hard- ened particles keeping the faucet from sealing.	Disassemble and clean the seat cup (see cleaning section).
	There may be a tear or cut in the seat cup.	2. Replace the seat cup.
	3. Water pressure may be too high.	Call CURTIS CARE for instructions on adjusting the water regulator.
Finished tea is weak.	The mixing valve is out of adjust- ment.	Open the mixing valve to increase tea concentrate flow.
	The product check valve may be stuck.	Remove and clean the check valve. Make sure check valve is installed with correct flow direction.
Product flowing from the faucet is too foamy or bubbly.	The clamps at the check valve may not be tight.	Reconnect tubing and tighten clamps.
	The clamp on the QCD connector may be loose.	Make sure the barbed end of the QCD fitting is pushed in on the hose and the clamp is tight.
	Tea concentrate product may have air in the BIB.	3. Turn the BIB so the fitting faces upward and open the faucet until all the bubbles are released.
	4. The O-ring on the QCD is worn out.	Replace the worn O-ring or install a new QCD.

Product Warranty Information

The Wilbur Curtis Co., Inc. certifies that its products are free from defects in material and workmanship under normal use. The following limited warranties and conditions apply:

3 Years, Parts and Labor, from Original Date of Purchase on digital control boards.

2 Years, Parts, from Original Date of Purchase on all other electrical components, fittings and tubing.

1 Year, Labor, from Original Date of Purchase on all electrical components, fittings and tubing.

Additionally, the Wilbur Curtis Co., Inc. warrants its Grinding Burrs for Forty (40) months from date of purchase or 40,000 pounds of coffee, whichever comes first. Stainless Steel components are warranted for two (2) years from date of purchase against leaking or pitting and replacement parts are warranted for ninety (90) days from date of purchase or for the remainder of the limited warranty period of the equipment in which the component is installed.

All in-warranty service calls must have prior authorization. For Authorization, call the Technical Support Department at 1-800-995-0417. Effective date of this policy is April 1, 2003.

Additional conditions may apply. Go to www.wilburcurtis.com to view the full product warranty information.

CONDITIONS & EXCEPTIONS

The warranty covers original equipment at time of purchase only. The Wilbur Curtis Co., Inc., assumes no responsibility for substitute replacement parts installed on Curtis equipment that have not been purchased from Wilbur Curtis Co., Inc. The Wilbur Curtis Co., Inc. will not accept any responsibility if the following conditions are not met. The warranty does not cover and is void under the following circumstances:

- 1) Improper operation of equipment: The equipment must be used for its designed and intended purpose and function.
- 2) Improper installation of equipment: This equipment must be installed by a professional technician and must comply with all local electrical, mechanical and plumbing codes.
- 3) Improper voltage: Equipment must be installed at the voltage stated on the serial plate supplied with this equipment.
- 4) Improper water supply: This includes, but is not limited to, excessive or low water pressure, and inadequate or fluctuating water flow rate.
- 5) Adjustments and cleaning: The resetting of safety thermostats and circuit breakers, programming and temperature adjustments are the responsibility of the equipment owner. The owner is responsible for proper cleaning and regular maintenance of this equipment.
- 6) Damaged in transit: Equipment damaged in transit is the responsibility of the freight company and a claim should be made with the carrier.
- 7) Abuse or neglect (including failure to periodically clean or remove lime accumulations): Manufacturer is not responsible for variation in equipment operation due to excessive lime or local water conditions. The equipment must be maintained according to the manufacturer's recommendations.
- 8) Replacement of items subject to normal use and wear: This shall include, but is not limited to, light bulbs, shear disks, "0" rings, gaskets, silicone tube, canister assemblies, whipper chambers and plates, mixing bowls, agitation assemblies and whipper propellers.
- 9) Repairs and/or Replacements are subject to our decision that the workmanship or parts were faulty and the defects showed up under normal use. All labor shall be performed during regular working hours. Overtime charges are the responsibility of the owner. Charges incurred by delays, waiting time, or operating restrictions that hinder the service technician's ability to perform service is the responsibility of the owner of the equipment. This includes institutional and correctional facilities. The Wilbur Curtis Co., Inc. will allow up to 100 miles, round trip, per in-warranty service call.

RETURN MERCHANDISE AUTHORIZATION: All claims under this warranty must be submitted to the Wilbur Curtis Co., Inc. Technical Support Department prior to performing any repair work or return of this equipment to the factory. All returned equipment must be repackaged properly in the original carton. No units will be accepted if they are damaged in transit due to improper packaging. NO UNITS OR PARTS WILL BE ACCEPTED WITHOUT A RETURN MERCHANDISE AUTHORIZATION (RMA). RMA NUMBER MUST BE MARKED ON THE CARTON OR SHIPPING LABEL. All in-warranty service calls must be performed by an authorized service agent. Call the Wilbur Curtis Co., Inc. Technical Support Department to find an agent near you.

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Wilbur Curtis Co., Inc.

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