FETCO® User's Guide and Operator Instructions



TBS-1221 and TBS/1222 Iced Tea Brewer FETCO TEAVARIS *PLUS*® Commercial Beverage Equipment



TBS-1221 Single Dilution Teavaris *Plus*

TBS-1222 Dual Dilution Teavaris Plus

Shown with ITD dispensers-not included



CONTACT INFORMATION

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TABLE OF CONTENTS

Specifications and Requirements	2
Starting The Brew	∠
Enter Programming	
A PROGRAM	
B GENERAL	
C SERVICE INPUTS	
D SERVICE OUTPUTS	
E CALIBRATION	
F SERVICE MENU	

F ERROR CODES	12
G COUNTERS	
H SAVE & EXIT	14
Operator Training	15
Parts Diagrams	18
Small Spray Head Assembly	23
Brew Baskets Parts Lists	24
Wiring Diagram	25

Specifications and Requirements

Water Requirements:

Water inlet fitting is a 1/4 inch male flare.(Page 16)
Pressure: 20-75 psig, (138-517kPa) 1½gpm/(5.7lpm)

For Iced tea: brewer is factory calibrated to a non-fluctuating

stable water supply pressure at 45 psi. Water supply: (Optimal) 100-150TDS

All beverage equipment must use filtered water

Brew Volume-Iced Tea: Full Batch 3 gallons/11.40 liters User adjustable to up to 4.9 gallon/18.7 liters per brew

Brew batch and dilution ratio user adjustable

Electrical: Supplied with 120V cord & plug

Tank Temperature, as set by factory: 200°F (93°C) inside water tank (at sea level)

Iced Tea Batch Temperature-user adjustable 200°F-207°F-/ 93°-98°C

Iced Tea Dilution Ratio: 1:4 factory set brew to water Factory setting adds 2.4 gallons of cold water to 0.6 gallon

brew for a 1:4 ratio Iced tea (2.3liter brew/9.1 liter dilution)

Dilution volume is user adjustable from 0-4Gal;0-15.2L

Total Brew Cycle—Iced Tea-(Batch 1)

6:45 minutes=[3:00 minute brew time + 1:30 minute drip delay + 0:10 dilution delay + 3:35 dilution]
Batch 2 and batch 3 may be enabled and will set by machine for batch 1 by default or as defined by user
Brew-Process parameters are user controllable for: Brew Volume, Brew Time, Prewet Percent and Delay,
Drip Delay, Tea Batch Temperature, Dilution Volume and Dilution Timing (with brew or after brewing)
Coffee Filter FETCO# F001 or 15" X 5 ½"
Dose: 2.5 oz to 4.0 oz

Single dilution brewer has a square plastic brew basket with set of nine orifices Electrical Specifications for single domestic- 120 volt cord and plug Electrical Heater Est.3gal KW SKU Dilution Voltage Amp Draw Connection Configuration Batches/Hour T1221US-1A117-PM001 Single **NEMA 15-5P** 1 X 1.7 kW 100-120 1.2-1.7 12.3-14.7 6 Domestic Electrical Specifications for single International- CEE 7/7 "Shucko" cord and plug Electrical Heater Est. 11.4 L Dilution **KW** SKU Voltage Amp Draw Connection Configuration Batches/Hour T1221IN-1B130-PN005 Single **CEE 7/7** 1 X 3.0 kW 200-240 2.1-3.0 10.9-13.0 8-9 Single **CEE 7/7** 9 T1221CE-1B130-PN005 CE 1 X 3.0 kW 230 2.8 12.5

Dual dilution brewer has a round brew basket to change the brew position from left to right for the dual dilution option. Note: The "D" in the SKU is for dual-dilution.

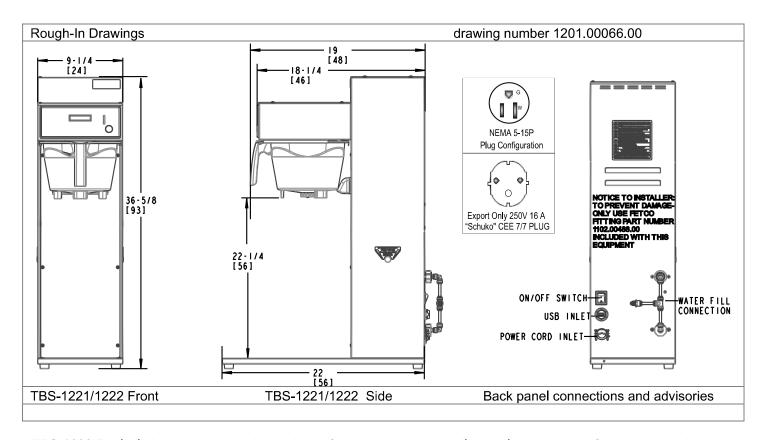
Electrical Specifications for Dual domestic- 120 volt cord and plug (Round plastic brew basket with set of nine orifices)

SKU	Dilution	Electrical Connection	Heater Configuration	Voltage	KW	Amp Draw	Est.3gal Batches/Hour
T122DUS-1A117-PN001 Domestic	Dual	NEMA 15-5P	1 X 1.7 kW	100-120	1.2-1.7	12.3-14.7	6

Electrical Specifications for Dual International- CEE 7/7 "Shucko" cord and plug

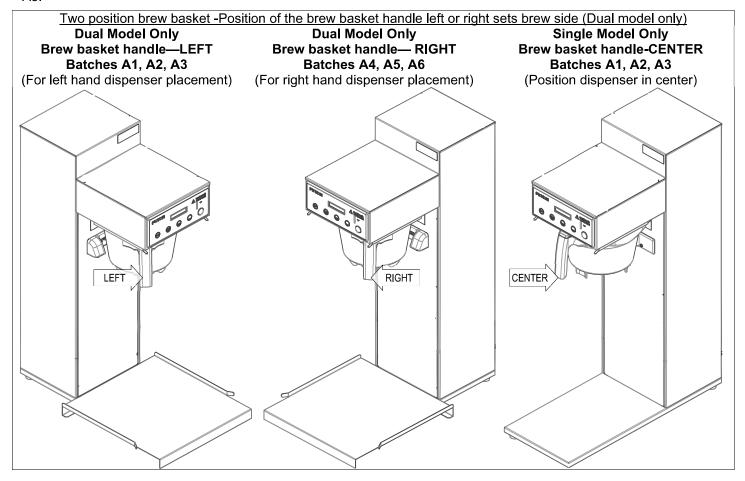
SKU	Dilution	Electrical Connection	Heater Configuration	Voltage	KW	Amp Draw	Est. 11.4 L Batches/Hour
	Dual	CEE 7/7	1 X 3.0 kW	200-240	2.1-3.0	10.9-13.0	8-9
T122DCE-1B130-PN005 CE	Dual	CEE 7/7	1 X 3.0 kW	230	2.8	12.5	9

Weights and Capacities								
Model	Height	Width	Depth	Water tank capacity	Empty Weight	Filled Weight	Shipping Weight	Shipping Dimensions
TBS-1221	36 5/8 in	9 1/4 in	22 in	2.7 gallon	35 lbs	60 lbs.	50 lbs.	39 x 27" x 11.5"
Brewer	930 mm	235 mm	560 mm	10.1 L	15.9 kg	27.2 kg	22.7 kg	991mmX686X292mm
TBS-1222	36 5/8 in	9 1/4 in	22 in	2.7 gallon	37 lbs	62 lbs.	52 lbs.	39 x 27" x 11.5"
Brewer	930 mm	235 mm	560 mm	10.1 L	16.8 kg	28.1 kg	23.6 kg	991mmX686X292mm

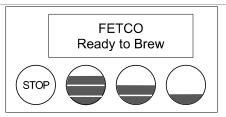


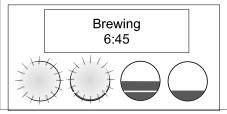
TBS-1222 Dual dilution brewer uses the position of the brew basket handle to select the recipe from the six recipe group. Left orientation is recipe group A1, A2 and A3. Right hand position is recipe A4, A5 and A6. Position a receiving dispenser for the left or right side brew orientation.

TBS-1221 Single dilution has a square brew basket and is only positioned in the center for three recipes A1, A2, and A3.



Starting The Brew





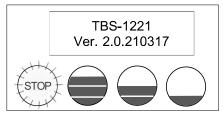
- 1. Turn the power switch "ON".
- 2. Prepare a brew basket with the correct size filter and appropriate amount of tea.
- 3. Slide the brew basket completely into the rails.
- 4. Place a clean, empty, dispenser under the brew basket.
- 5. Select a batch & hold the corresponding BREW button in for 1 second to start
- 6. -STOP button will illuminate, Brew Selector button will illuminate
 - -Countdown time will display. Default time setting is 6:45(iced tea)
 - -Selected BREW button will slowly pulsate to indicate brew is in progress.
 - -All other BREW buttons for that brew head will be unlit.
- 7. Dilute DELAY cycle will activate at 3:45
- 8. Dilute will activate at 3:30.

Upon time out, brewer will return to "READY" for next batch STOP button will extinguish and the BREW button will illuminate on completion For safety- do not remove brew basket until drip-out is complete.

Enter Programming

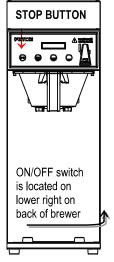
There are 7 menu groups-A-F plus EXIT (G).

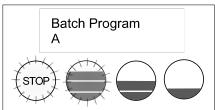
See the following pages for the batch parameter definitions and all settings for the brewer



TO ENTER PROGRAMMING

- 1-Turn brewer "OFF" from power switch 2-Turn power switch to "ON"
- ...Screen will initialize and then display digital process notifications
- 3-After Initialization- "STOP" Lamp turns on 4-Quickly press "STOP" button (no need to hold)





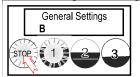
When brewer is In PROGRAMMING MODE -the screen will display:

IBATCH PRGI A (or B-F)

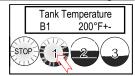
-Illuminated LED indicates active keypad positions

See the following pages for batch parameter definitions and all settings for the brewer

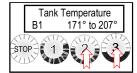
Enter Programming to Make Changes Section B - "General Settings" to change tank temperature shown below



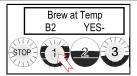
STOP button until the General Settings ("B") screen appears



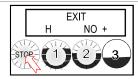
Enter Programming-Press From the "B" screen Press button 1 to toggle to the Tank Temperature Screen (default is 200°)



From Tank Temp screen Toggle buttons 2 & 3 to select the desired temperature



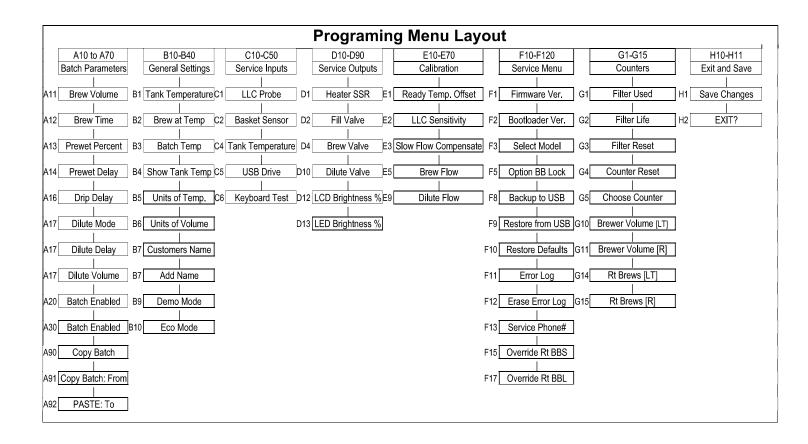
From Tank Temp screen Press button 1 to toggle to the next selection in General Settings or SAVE to screen two below



To SAVE and EXIT Press the STOP button to the "H" screen. Proceed

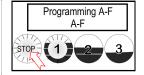
See the progammin menu layout table on the next page to locate the disired control setings to adjust. Batch size and menu brewing parameters are in section "A".

The most common settings for tank temperature satpoint, units of measure are in section "B".

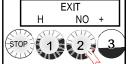


Do not exit Programming by turning brewer off/on, all settings will be lost. Follow the steps shown in the chart below to exit and save settings.





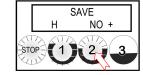
From any screen-Press STOP button until the EXIT ("H") screen appears



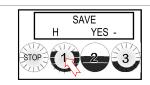
From the "H" screen Press button 2 to toggle to the EXIT-YES screen



From EXIT screen Press button 1 to toggle to the SAVE screen



From SAVE screen to the SAVE-YES screen



To SAVE and EXIT Press button 2 to toggle Press button 1 to SAVE your changes and EXIT to **OPERATING MODE**

A PROGRAM Menu Features: Batch Parameters

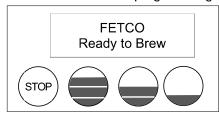
The settings below are shown for the top batch on a single brewer top left button on a twin brewer. See how to access all A menus on the previous page. Below are the brew settings for default A1 & A2 batches

366 110	w to access all A men	ius on the previous pa	age. below are the bre	w settings for	default AT & AZ Datches
POSITION	Program Items	Factory set Default	Programming Range	Increments	Notes
A11	Batch Volume	78 Oz 2.20liters	33 oz to 135oz 0.94 to 3.9L	1 oz 0.05L	Software is in fl, ounce; Can convert to liters/gallons
A12	Brew Time (MIN:SEC)	3:00 minutes	2:00 — 12:00	30 sec	Default total brew time is 5:00 minutes
A13	Prewet Percent	0%	0.00 – 25.0%	1%	Percentage of total brew volume
A14	Prewet Delay (Pause after prewet completes)	0% [1:00 Min]	[0:10 – 5:00]	30 sec	The time between prewetting and start of brew cycle. This feature appears ONLY if Prewet >0:00
A16 A170	Drip Delay Dilution Mode	1:30 mm:ss	0:30 – 6:00 min. Normal/Fast	10 sec	Time brew basket should remain in place during final drip-out →Drip delay remains "ON" for 2:00 minutes if STOP is pressed during brew † NORMAL: Dilution after the brew is completed
AIIO		NOITIAI	Normal/Fast		FAST: Dilution is during the brew cycle
A171	Dilution Delay (not available for FAST dilute)	0.10	0:00 –12:00 min	10 sec	Pause after brew to begin dilution. Often used to add sweetener
A172	Dilution Volume	308 oz 9.1 liters 2.4 gallons	1-512oz 0:00 –15:15 liters 0:00 –4:0 gallons	1 oz 0.05L 0.01G	Unit default is fluid ounces. Can be set for liters and gallons.
A190	Batch Temp.	200°F (93°C)	200-207°F	1 degree	Used to set brewing temperature for individual batches (only if B-2 is on)
A20	Batch Enabled A20 YES - NO +	NO	OFF/ON	Select	Batch presets as above
A30	Batch Enabled A30 YES - NO +	NO	OFF/ON	Select	Batch presets as above
A4.00	Batch Volume	78 Oz	33 oz to 135oz	1 oz	See A11 - above
A4.20	Brew Time (MIN:SEC)	3:00 minutes	2:00 - 12:00	30 sec	See A12 - above
A4.30	Prewet Percent.	0%	0.00 - 25.0%	1%	See A13 - above
A4.40	Prewet Delay	0% [1:00 Min]	[0:10 - 5:00]	30 sec	See A14 - above
A4.60	Drip Delay	1:30 mm:ss	0:30 – 6:00 min.	10 sec	See A16 - above
A4.70	Dilution Mode	Normal	Normal/Fast		See A170 - above
A4.71	Dilution Delay	0.10	0:00 –12:00 min	10 sec	See A171 - above
A4.72	Dilution Volume	308 oz	1-512oz	1 oz	See A172 - above
A4.90	Batch Temp.	200°F (93°C)	200-207°F	1 degree	See A190 - above
A50	Batch Enabled A50 YES - NO +	NO	OFF/ON	Select	Batch presets as above
A60	Batch Enabled A60 YES - NO +	NO	OFF/ON	Select	Batch presets as above
A90 Copy Batch					
A91 Copy From	Copy From Batch	1 +	A91 1 (1-6)		Select recipe to copy
A92 (PASTE TO)	Paste To Batch?	1 +	A92.1 (1-6)		Select where to paste
400 140					

A20 and A30 (middle and right batches) are shipped disabled may be enabled by user.

[†] DRIP DELAY will not activate when STOP is pressed within 5 seconds of starting a brew time

Batch A locations for programming



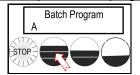
&DUAL **DUAL**

SINGLE Batch A1 Batch A2 Batch A3

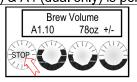
Batch A4 Batch A5 Batch A6 ONLY

The A menus A1-3 (single) A1-6 (dual) correspond to the three batch buttons on the touch panel

Access the A menus to PROGRAM & make changes to individual menu recipes. Menu settings can be copied Menu position A1 (single) & A4 (dual only) is permanent. Menu A2 & A3 (A5 & A6-dual) are enabled by as desired



From A PRG screen Press button 1 to go to the A menu access screen



From A11 screen Press **STOP** to scroll to A20. (A1 is permanent)



Press the third button to enable the batch, if desired. The recipe is factory defaulted as recipe 1.10

From A20 screen Press **STOP** to scroll to the third batch in the "A" menus. Make any changes as required



Press the third button to enable the batch, if desired. Recipe is factory default as recipe 1.10

through COPY and

further to remaining

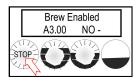
programming keys.

From A30 screen Press STOP to scroll



To continue Press STOP to scroll through more sections See SAVE & EXIT on page 5 or 14

...For TBS-1222 only, proceed to A4, A5 and A6 to program the left side



From A3.00 screen Press STOP to scroll to A4:00



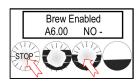
A4.00 is permanently enabled. It is factory set for the same parameters as A1.10

From A4.0 screen Press STOP to scroll to the next menu



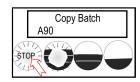
Press the third button to enable the batch, if desired Recipe is factory default as recipe 1.10

From A5.0 screen Press STOP to scroll to the next menu



Press the third button to enable the batch, if desired Recipe is factory default as recipe 1.10

From A6.0 screen Press STOP to scroll to the next menu



From A90 press once more to access menus B-H

Be certain to "SAVE " changes if recipes are modified or programmed. See page 5 or 14

B GENERAL Brewer Operation Control Settings, Adjust Brew Flow Rate						
POSITION	Program Items	Factory set Default	Programming Range	Increments	Notes	
B1	Tank Temp.	200°F-or-93°C	170° to 207°F 77° to 97°C	1.0°F 0.5°C	Chart to correct for high altitude below	
B2	Brew at Temp.	"YES"	ON/OFF	YES/NO	SEE NOTE BELOW	
В3	Batch Temp	OFF	ON/OFF	ON/OFF	For tea brewing temperature for A190	
B4	Show Tank Temperature	YES	YES/NO		To display HW tank temperature on screen	
B5	Units of Measure TEMPERATURE	° Fahrenheit	Fahrenheit/Celsius	C/F	NOTE: Overwrites user settings (see page 9)	
В6	Units of Measure VOLUME	Ounces	Ounces/Liters/Gallons	Oz/L/Gal	NOTE: Overwrites user settings (see page 9)	
В7	Customer Name	Off	NO or YES		For name on screen	
В8	Customer Name	(only if above is "ON)	Scroll with batch keys	A-Z;a-z;0-9	16 characters total	
В9	Demo Mode	OFF	DEMO ON/OFF		Demonstrates the controls for training. Disables all components in demo mode	
B10	Eco Mode	Off	ON/OFF	YES/NO	If Selected: Lowers hot water tank temperature after preset time of inactivity	
B11	Eco Idle Time (turns on if B10 active)	1Hr	1-6 hours	1 hour	Time of inactivity to go into ECO Mode	
B12	Eco Idle Temp (turns on if B10 active)	169°F	158-176°F	1 degree	Temperature that hot water tank is lowered to	
B13	Filter Life	OFF	ON/OFF	YES/NO	Water filter life is accessed in G-Counters. This is user set and will display indicator to change water filter	

Hot water tank not at

brew temp setpoint.

HEATING

160°F

FETCO

Ready to Brew

BREW AT TEMPERATURE DEFINITIONS

DEFAULT: BREW AT TEMP: "ON"

(FACTORY DEFAULT FOR BREWER)

"BREW at TEMP:

-Batch will not start if tank temperature is below set point.

-Display will show "HEATING" and hot water tank temperature The "BREW START" entry buttons will not illuminate until the hot water tank reaches the selected temperature.

Notifications shown on screen:

TEXT: **HEATING**→Tank above 87°C/189°Fwill allow brew at low temperature. Extracted tea flavor may be affected TEXT: L. HEAT→Tank above 76°C/169°Fwill allow brew at low temperature. Tea flavor will be noticeably affected

Tank temp→ STOP is not lit → & BREW START buttons not lit. and are disabled. Batch menu



"READY" will display (ऽтор setpoint

USER SELECTABLE OPTION: BREW AT TEMP: OFF (Not recommended) Unit will operate at reduced temperature Allows brewing at any temperature above 169°F/76°C

CI	Chart to correct for altitude for boiling point in hot water tank water temperature.								
[ft]	[m]	Suggested Setting[°F]	Boiling point[°F]	Suggested Setting[°C]	Boiling point [°C]				
0	0	205	212.0	96	100.0				
500	152	205	211.0	96	99.5				
1000	305	200	210.1	93	98.9				
2000	610	200	208.1	93	97.8				
2500	762	200	207.2	93	97.3				
3000	914	200	206.2	93	96.8				
3500	1067	197	205.3	92	96.3				
4000	1219	195	204.3	91	95.7				
4500	1372	194	203.4	90	95.2				
5000	1524	194	202.4	90	94.7				
5500	1676	193	201.5	89	94.2				
6000	1829	192	200.6	89	93.6				
6500	1981	191	199.6	88	93.1				
7000	2134	190	198.7	87	92.6				
7500	2286	188	197.8	86	92.1				
8000	2438	187	196.9	86	91.6				
8500	2591	185	196.0	85	91.1				

C SERVIC	CE INPUTS	Brewer Senso	rs and Keypad		
POSITION	Program Items	Factory set Default	Programming Range	Increments	Notes
C1	LLC Probe continuity	Direct read	TDS tank reading (water resistance)	≈850- LOW ≈1600-HIGH	Nominal values
C2	Brew Basket Sensor	Direct read	YES or NO		
C4	Tank Temperature	Direct read	Hot water tank temperature		Actual values
C5	USB Drive	NO			
C6	Keyboard Test	Calibrate	Checks buttons under membrane	YES/NO	Follow directions on the screen

D SERVI	D SERVICE OUTPUTS Test Valves and Heaters; Set screen brightness								
POSITION	Program Items	Factory set Default	Programming Range	Increments	Notes				
D1	Heater SSR Test	Press button 2 to test (button 1 stops test)	Activates heater Default is 10 sec	Toggle +/- OFF or ON	Energizes Heater(s) WARNING! Service use only.				
D2	Fill Valve Test	Press button 2 to test (button 1 stops test)	Activates valve Default is 10 sec.	Toggle +/- OFF or ON	Press To Test				
D4	Brew Valve Test	(Press to test)	Activates valve Default is 10 sec.	Toggle +/- OFF or ON	Runs valve to verify flow. NOTE: Have container under brew basket.				
D9	Lt Dilute Valve	(Press to test)		Toggle +/- OFF or ON	Press To Test				
D10	Rt Dilute Valve	(Press to test)		Toggle +/- OFF or ON	Press To Test				
	Single series	s displays right side only	Left Valve display is or	nly for twin side	brewer.				
D12	LCD Brightness	Brightness=90%	20-100%	5%	Adjust LCD screen brightness only-Not for LEDs under buttons				
D13	LED Brightness	Brightness=60%	20-100%	5%	Adjust LED button brightness only-Not for the screen display LCD				

E CALIBR	E CALIBRATION Brewer Sensors and Keypad								
POSITION	Program Items	Factory set Default	Programming Range	Increments	Notes				
E1	Ready Temp. Offset	-3°F -2°C	-2° to -9°F -1° to -5° C	1°F 1°C	Compensates output to measured temperature				
E2	LLC Sensitivity	NORMAL" for most water)	HIGH (Biased for reverse osmosis water or very pure water)	NORMAL HIGH	Liquid level control sensitivity. High,(1300Ω) is for reverse osmosis water or very pure water.				
E3	Slow flow rate from supply	OFF	OFF/ON	Toggle +/- YES or NO	Trims fill system for low supply or Flojet use				
E5	Brew valve flow rate:	54oz/1.60L/0.42G	45-64oz 1.30-1.90Liter 0.34-0.52G	1oz 0.05L 0.013G	Adjusts flow rate by brew valve				
E9	Dilute valve flow	86oz/2.55L/0.67G	38oz-112oz 1.75-3.30Liter 0.46-0.86G	1oz 0.05L 0.013G	Adjusts flow rate by dilution valve				

Use this formula to compensate for minor discrepancies in actual volume versus programmed volume. See "PROGRAM" <u>E5</u> For valve settings and calibration. Factory set brew valve flow rates are in liter/min								
Default Brew Valve Flow Rate—TBS-1221 Brewers								
	TBS-1220	Oz /L/ G/minute	Range					
ACTUAL VOLUME	Brew Valve FR	54/160/0.42	45oz-64oz					
ACTUAL VOLUME CURRENT NEW	Dilute Valve FR	86oz/2.55L/0.67G	38oz-112oz					
^ SETTING - SETTING	Set FR lower to inc	Set FR lower to increase volume,						
PROGRAMMED VOLUME	Set FR higher to decrease volume.							
	Use the formula above to determine the correct setting							

F SERVIC	VICE MENU Software & Code View and Settings				
POSITION	Program Items	Factory set Default		Increments	Notes
F1	Display Firmware	2.1.210504			Displays current version [4/2021]
F2	Display Bootloader	2.0.210317			Displays current version [4/2021]
F3	Select Model	TBS-1221 Will need reboot	Scroll to brewer model Save & Exit	CBS-1221 CBS-1231, CBS-1232 CBS-1241, CBS-1242 CBS-1251, CBS-1252 CBS-1261, CBS-1262 MBS-1221, MBS-1251 TBS-1221, TBS-1222	NOTE: Overwrites all user settings (See below)
F5	Option BB Lock	NO	NO or YES		Enables brew basket lock
F8	Backup to USB		Follow prompts	Saves settings	Insert blank USB
F9	Restore From USB		Applies settings from USB		Insert USB Will need reboot
F10	Restore Defaults	NO	NO/YES		Reset to factory
	en selecting F10-RESTORE DEFAULTS, save and exit programming (page 13). Brewer returns to factory defaults your model and deletes all user inputted changes.				
F11	Error Log	Lists up to six codes, in order	1: ; 2: ;3:;4: ;5: ;6: 1=Newest/6=Oldest LAST six errors only	Newest=first Oldest=last	See Error Code Chart for references
F12	Erase Error Log	NO +		Toggle +/- YES or NO	FACTORY USE ONLY. DO NOT RESET
F13	Service Phone #				Service
F15	Override Rt BBS	NO	NO/YES	Toggle +/- YES or NO	Disables brew basket sensor
F17	Override Rt BBL	NO	NO/YES	Toggle +/- YES or NO	Disables brew basket lock

F ERROR CODES DO NOT CLEAR ERROR CODES UNTIL ERROR IS IDENTIFIED AND CORRECTED → Contact factory or specialized personnel for error codes Code **Description Possible Cause Corrective Action** Software error-error on start up or Improper start-up or 001 Restart, if still fault: reload software corrupted software shutdown Internal flash corrupted Error found in cyclic Restart, if still fault: reload software 002 internal data memory malfunction redundancy check CRC If not corrected :replace board 050 Short-circuit in temperature probe Probe failure. Replace probe. Bad probe connection, or Check all connections. Replace probe if 051 Open temperature probe. probe failure. necessary. Initial Fill Error. Watch for short potting during brew Water supply flow rate is 100 Initial fill time took longer than cycle. Investigate cause of low flow rate. too low. expected after powering up. (Clogged water filter...) Watch for short potting during brew Error on refill-. Water supply flow rate is 101 cycle. Investigate cause of low flow rate. Tank did not refill within expected time. too low. (Clogged water filter...) High elevation correction. Bad heaters Heater is on, temperature is 200 Heating flatline-Tank is boiling not rising/dropping or temperature probe or position Heater open, high limit thermostat, or Failure of heating element, Check and replace heating elements. 201 SSR, high limit SSRs, high limit devices if necessary. Solid State Relay (SSR) fault Heater is off and heating Check ohms on heater (15-60 Ω). SSR 202 Heater Shorted or Stuck SSR SSR is stuck "ON" may be stuck in ON mode-replace SSR. Usually from longer than 10 Restart, if still fault: reload software. If 255 se contact. Or faulty Keyboard [HID] error mechanical: replace module reassembly after service Brew basket must be in NO place Insert brew basket into brewer rails to **BSKT** This is a enable brewer **Insert Brew Basket** SAFETY FEATURE

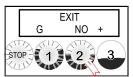
G COLIN	TERS B	rewer Heade M	lator F	ilter I Isage and	Statistics	
G COUNTERS Brewer Usage, Water Filter Usage, and Statistics ROLE: [LT]=Permanent total for lifetime of machine [R]=operator resettable [User]=Input needed from operator						
Position	Counter	Program items	Role	Information	Increments	Notes
						ERAL if they are not visible and the
equipment ha	s a water filte	r.	_	,		•
All beverage	equipment mu	ist use filtered water an	d filter ca	artridges must be monitore	d for quality	
G1	A, S, B	Filter Used	[User]	0G	Gallons/Liters	Amount of water passed through external water filter. For filter life
G2	A, S, B	Filter Life	[User]	2,625Gal 10,000Liters	25 gal 100 L	Upload published life of filter
G3	A, S, B	Filter Reset	[User]	NO	Toggle +/- ,Y or N	Reset when replacing external water filter
G4	A, S, B	Counter Reset	[User]	NO	Toggle +/- ,Y or N	Resets all resettable counters to zero
G5	A, S, B	Choose Counter		Factory set to BASIC	Basic= B Advanced= A Statistical= S	Stored brewer component activity See column 2, Counters , to identify where counters are located.
			Available	e in BASIC counter only (C	95)	
G10	В	Brewer Volume	[LT]	Dispensed volume	Gallons/Liters	Total of brews and hot water dispensed
G11	В	Brewer Volume	[R]	·	Gailerie/Eliere	Total of brown and not mater dispensed
G12	В	Lt Brews	[LT]	Left side brew total	Count	Total brews-Left side (CBS-1242 only)
G13	В	Lt Brews	[R]	CBS-1242		, , ,
G14 G15	<u>В</u> В	Rt Brews	[LT]	Right side brew total	Count	Total brews-Right side
		Rt Brews	R]	ailabla in ADVANCED ass	inter only (C5)	
G20-G55 C01	A A	Fill Cycles	[LT]	ailable in ADVANCED cou Hot water tank refill	inter only (G5)	
G21	A	Fill Cycles	[R]	cycles	Count	Cycles of hot water tank refill
G22	A	Fill Volume	[LT]	Total volume of water		
G23	A	Fill Volume	[R]	for all brews	Gallons/Liters	Quantity of water for brews
G28	A	Rt Brew Cycles	[LT]	Right brew valve		
G29	A	Rt Brew Cycles	[R]	operation on/off	Count	Totalized cycles of valve operation
G30	Α	Rt Brew Volume	[LT]	Right brew valve		
G31	Α	Rt Brew Volume	[R]	flow through volume	Gallons/Liters	Totalized volume through right valve
G44	Α	Rt Dilute Cycles	[LT]	0	0	Tatalian decoder of color or continu
G45	Α	Rt Dilute Cycles	[R]	Count	Count	Totalized cycles of valve operation
G46	Α	Rt Dilute Volume	[LT]	Dilutes valve flow	Gallons/Liters	Totalized volume through dilute valve
G47	Α	Rt Dilute Volume	[R]	through volume	Gallons/Liters	Totalized volume through dilute valve
G50	A	Rt BBL Cycles	[LT]	Right brew basket lock	Count	Totalized cycles of brew basket lock
G51	Α	Rt BBL Cycles	[R]	operation on/off	Journ	operation
G52	Α	Heater Cycles	[LT]	ON/OFF switching for	Count	Totalized cycles of heater switching
G53	A	Heater Cycles	[R]	heating elements	- 50111	. stalled dyside of floater dwitering
G54	A	Heater On Time	[LT]	Total ON time for	Hour	Totalized heater ON time in hours
G55						
G80-G91 See illustration below for batch button positions Available in STATISTICAL counter only (G5) G80 S Batch 10 Cycles [LT] Menu button selection C C C C C C C C C C C C C C C C C C C						
G80 G81	S S	Batch 10 Cycles Batch 10 Cycles	[LT] [R]	Menu button selection and activation count	Count	Total brews-left side top button
G82	S	Batch 10 Cycles Batch 20 Cycles	[LT]			
G83	S	Batch 20 Cycles	[R]	Menu button selection and activation count	Count	Total brews-left side middle button
G84	S	Batch 30 Cycles	[LT]	Menu button selection		
G85	S	Batch 30 Cycles	[R]	and activation count	Count	Total brews-left side bottom button
		Dator do Oyoles	1 1/3	Lana dourador oodrit	1	

The brewer will save changes only from the "H" menu. **DO NOT** reboot brewer or toggle ON/OFF-exit as below.

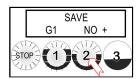
TO EXIT PROGRAMMING & HOW TO SAVE CONTROL SETTING CHANGES

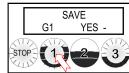
HOW TO SAVE CHANGES AND EXIT-*The brewer is in PROGRAMMING mode.*A convenient way to access the steps is to remember to scroll to EXIT→YES and to SAVE →YES











From any screen-Press STOP button until the EXIT ("G") screen appears

From the "G" screen
Press button 2 to
toggle to the EXITYES screen

From EXIT screen
Press button 1 to toggle to the SAVE screen

From SAVE screen
Press button 2 to toggle to the SAVEYES screen

To SAVE and EXIT
Press button 1 to
SAVE your changes
and EXIT to
OPERATING MODE

NOTE: User Settings will be erased and overwritten to factory default settings by the following five programming changes

- 1) When setting or changing units of display for the tank temperature (F Fahrenheit or C Celsius). (SETTING B5)
- 2) When setting or changing units of display for the volume (L liters, G gallons).

(SETTING B6)

3) When setting brewer model \rightarrow The software sets equipment to brewer defaults

(SETTING F3)

4) When loading from USB (Reprograms settings)

(SETTING F9)

5) When restoring defaults (Reloads to defaults)

(SETTING F10)

Operator Training

Review the operating procedures with whoever will be using the brewer.

Pay particular attention to the following areas:

- 1. Always use clean and sanitized dispensers for iced tea, demonstrate cleaning and sanitation procedures.
- 2. Make sure the dispenser is empty before brewing into it. Leave an empty dispenser in place when not in use.
- 3. Do not remove the brew basket from a brewer until it has stopped dripping.
- 4. Show how to attach covers, close, and or secure the dispensers for transporting.
- 5. Show the location and operation of the water shut off valve as well as the circuit breaker for the brewer.
- 6. Steam from the tank will form condensation in the vent tubes. This condensation will drip into and then out of the brew baskets. Up to 1/4 cup/118cc discharging overnight is possible. Place an appropriate container under each brew basket when not in use.
- 7. We recommend leaving the power to the brewer on overnight. The water tank is well insulated and very little electricity is used to keep the tank hot. Leaving the brewer in the "ON" position will also avoid delays at the beginning of shifts for the brewer to reach operating temperature.

Cleaning & Maintenance

After Each Brew:

- 1. Dispose of spent tea and rinse brew basket.
- Never strike a brew basket or hit it against a hard surface.This will damage the brew cone, and may damage the brew basket support rails
- 3. Rinse and sanitize dispensers before reuse. Do not hold tea at room temperature



- 1. Wash brew basket with hot sudsy water.
- 2. Pull CSD from the spray head, it is magnetically attached. Use gloves or a heavy towel. → Wash off any film and reattach. Use vinegar if limescale filming is present.



- 3. Clean dispensers with hot suds water and a brush, rinse and air dry.
- 4. <u>Use only a soft cloth and hot suds on the outside to avoid scratches.</u> Never use abrasives that will scratch surface.

Weekly

- 1. Use a commercial tea dispenser cleaner such as URNEX™, TABZ™, DIP-IT™ or Squeak 'n Clean™.
- 2. Carefully Follow the instructions supplied with the cleaning product
- 3. Never use spray cleaners, solvent, solvent based cleaner or petroleum based polish anywhere on dispensers

Warning

- 1. Turn off power before any cleaning procedure, including wiping the exterior for appearance reasons.
- 2. Dry the exterior, especially the face panel, before turning on power.
- 3. Do not apply any type of spray cleaner on the face panel of this equipment.
- 4. Never use solvent or solvent-based cleaner or petroleum based polish anywhere on this equipment.
- 5. Dry the face of the touch pad before turning on power
- 6. Do not electrically energize this equipment or attempt operation without all covers in place and all screws fastened.
- 7. Unplug machine before disassembly or servicing.

Safety Notes

- 1. Professional installation is required. This appliance is manufactured only for commercial use
- 2. Operational requirements and maintenance for commercial cooking appliances differ from household appliances.
- 3. Operators must be trained for this equipment and must understand the use, maintenance and hazards.
- 4. Access to the service area is restricted to persons having safety/hygiene knowledge and practical experience of the brewer. This appliance must be installed in locations where it can be overseen by adult trained personnel.
- 5. Do not attempt to move hot beverage equipment once it is filled. Drain equipment before moving.
- 6. FETCO commercial brewers prepare large amounts of tea in a single batch using very hot water
- 7. Commercial brewers provide very hot water from the spray head, brew basket and faucet when it is pulled.
- 8. Brewers may continue to dispense very hot water after the electronic touchpad is completely disabled by turning off the power switch on the lower back of the unit or unplugging the unit.
- 9. For safety, the brewer control locks the brew basket for 6.5 minutes after starting the brew.
- 10. Never attempt to defeat the factory set (default) time that the brew basket is locked for safety from start of brew.

Keep these instructions for training and future reference.



(For Qualified Service Technicians Only)

General:

- 1. If not installed correctly by qualified personnel, the brewer will not operate properly, and damage may result.
- 2. Utilize only qualified beverage equipment service technicians for service and installation.
- 3. Always have an empty dispenser under spray head of all brewing equipment-including when at idle
- 4. Damages resulting from improper installation are not covered by the warranty and will void the warranty. Below are the key points to consider before installation:

Electrical:

- 1. All CBS_Series brewers require an electrical ground wire. Installation without grounding is dangerous.
- 2. Note Equipotentiality Terminal, if present, (To identify the terminals which, when connected together, bring the various parts of equipment or of a system to the same potential, not necessarily being the earth (ground) potential, e.g. for local bonding.)
- 3. Verify voltages, polarity, circuits, and circuit breaker access before attaching equipment.
- 4. Brewers in this series wire differently in regard to a neutral wire. Review the wire diagrams.
- 5. The electrical diagram is located in the User's Guide and online at www.fetco.com.
- 6. Make sure of the tight grounding of the equipment and use the external ground bolt.
- 7. The installation must comply with applicable federal, state, and local codes having jurisdiction at your location. Check with your local inspectors to determine what codes will apply.

→ See wiring diagrams for connections

Plumbing:

- 1. North America: All installations must comply with applicable federal, state, or local plumbing codes.
- 2. All Others: The water and waste piping and connections shall comply with the International Plumbing Code, International Code Council (ICC), or to the Uniform Plumbing Code (IAPMO).
- Install a backflow prevention device. Most municipalities require a recognized backflow preventer
 Usable on all hot beverage and cold beverage equipment is a WATTS® SD-2 or SD-3.
 WATTS spring loaded double check valve models are accepted by most zoning authorities.
 → The check valve should be as close to the water supply inlet of the beverage equipment as possible
- 4. All beverage equipment must use a water filter. A finishing carbon filter is preferred
- 5. Install the filter unit after a water shutoff valve and in a position to facilitate filter replacement.
- 6. The water line and newly installed filter cartridge must be flushed thoroughly prior to connecting it to the brewer to prevent debris from contaminating the machine
- 7. Verify that the water line will provide a flow rate of at least 1½gpm/(5.7lpm) per minute and the water pressure is between 20-75 psig (138-517kPa) before making any connections. TBS-1221 / TBS-1222 is factory calibrated to a stable, non-fluctuating water supply pressure at 45 psi
- 8. Only use the supplied factory adaptor (shipped in brew basket)to attach water supply line to both brewer fittings
- 9. The supplied fitting is a 1/4" flare.. Other fittings may be substituted for the flare fitting.
- 10. Hand tighten the factory fitting when connecting the stub on the brewer. This will reduce stress on the internal connections and reduce the possibility of leaks developing after the install has been completed

Tank Drain

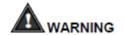
The water tank must be drained before maintenance procedures, and when the unit is to be relocated or shipped. Drain is for service use only and must not be permanently connected. NOTE: Never plumb a water line to the drain.

- 1. Disconnect power and water to unit. DANGER: Ensure that all utility connections to the brewer are broken.
- 2. Move the unit near a sink or obtain a container large enough to hold four gallons of water.
- →Note: The hot water tank holds up to 2¾ gallons/10.1liters.
- 3. Remove the front panel and tank cover and allow the tank to cool to a safe temperature
- 4. The tank drain line and clamp are located inside-under the hot water tank. Pinch the drain line clamp to close
- 5. Locate the fill valve against the back wall, using pliers, loosen the hose clamp and move it back over the tube.
- →Note Do not loosen the hose clamp to the bottom of the hot water tank
- 6. Crimp the tube an inch or two away from the drain plug to prevent water from flowing and pull it off the valve.
- 7. Pull the tube end out of the brewer and position over sink or bucket.
- 8. Release the crimped tube and hose clamp and allow the water to flow into the sink or container.
- 9. Reverse steps 4-8 when service is complete. Ensure pinch clamp is open and hose clamps are in place.

Installation safety and hygiene directions-For International and CE equipment

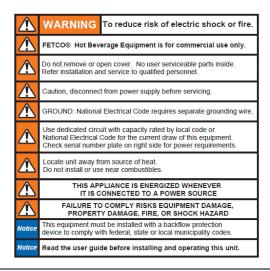
- 1. Access to the service area is restricted to persons having safety/hygiene knowledge and practical experience of the brewer. This appliance must be installed in locations where it can be overseen by trained personnel.
- 2. For proper operation, this appliance must be installed indoors where the temperature is between 10°C/50°F to 35°C/95°F. Drain and remove all liquid from equipment and lines if exposed to freezing temperatures.
- 3. All commercial cooking equipment, including this unit, is not intended for use by children or persons with reduced physical, sensory, or mental capabilities. Ensure proper supervision of children and keep them away from the unit.
- 4. Children should be supervised to ensure that they do not play hot beverage equipment.
- 5. This unit must be installed and serviced by qualified personnel only.
- 6. Installation must conform to all local electrical and plumbing codes. Installation by unqualified personnel will void the unit warranty and may lead to electric shock or burn, as well as damage to unit and/or its surroundings.
- 7. If the power cord requires repair or replacement-it must be performed by the manufacturer or authorized service personnel with the specified cord only from the manufacturer in order to avoid a hazard.
- 8. Review the dimensions for the unit and verify that it will fit properly in the space intended for it. Verify that the counter or table will support the total weight of the brewer and dispensers when filled (See: Technical Data).
- 9. Place the brewer on the counter or stand. When the brewer is in position, level it front to back as well as side-to-side by adjusting the legs.
- 10. Brewers will need a sturdy supported surface for operation. Do not move brewers when filled.
- 11. Do not tilt appliance more than 10° to insure safe operation.
- 12. Unit is for protected indoor use only. Do not steam clean or use excessive water on unit.
- 13. This unit is not "jet-proof" construction. Do not pressure wash or use jet spray to clean this unit.
- 14. The unit is not waterproof-do not submerge or saturate with water.

Equipment exposed to flood and contaminated must not be used due to electrical and food safety. Do not operate if unit has been submerged or saturated with water.



All electrical connections must be in accordance with local electrical codes and any other applicable codes. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons in order to avoid a hazard.

To prevent an electric shock hazard this device must be bonded to equipment in close proximity with an equipotential bonding conductor. This device is equipped with a bonding lug for this purpose and is marked with the following symbol



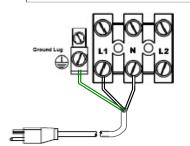
Labels and warnings for hot beverage equipment

For BACK PANEL of equipment (1046.00035.00)



TBS-1221/1222 120-volt models with cord and plug

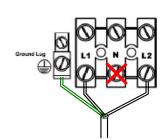
Brewer supplied by factory as 120VAC





TBS-1221/1222 models 200-240 volt L1, L2,G

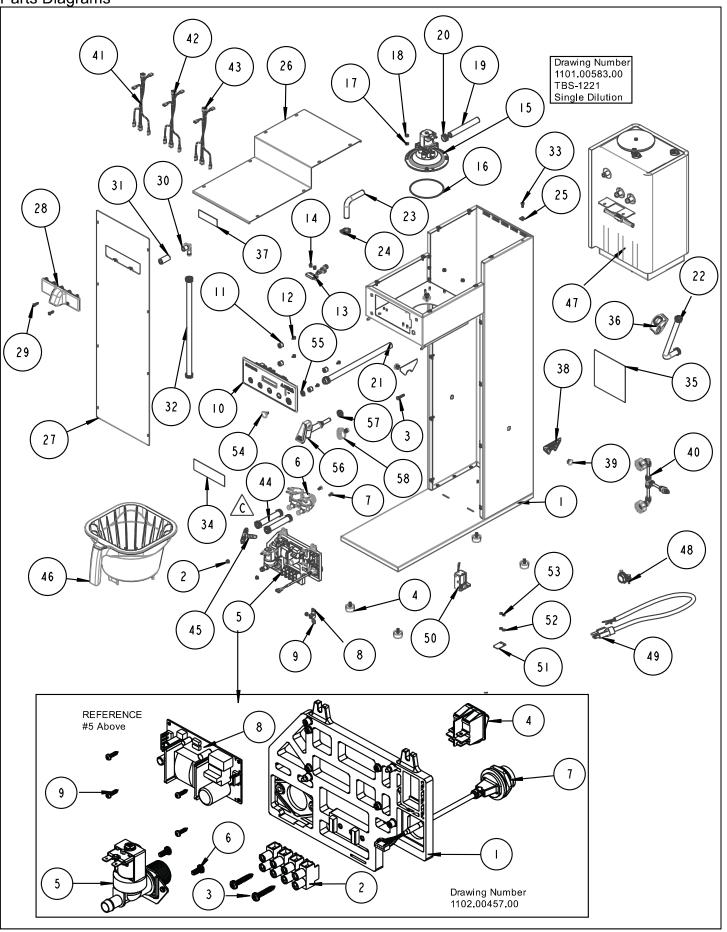
For 200 -240 volt application: connection



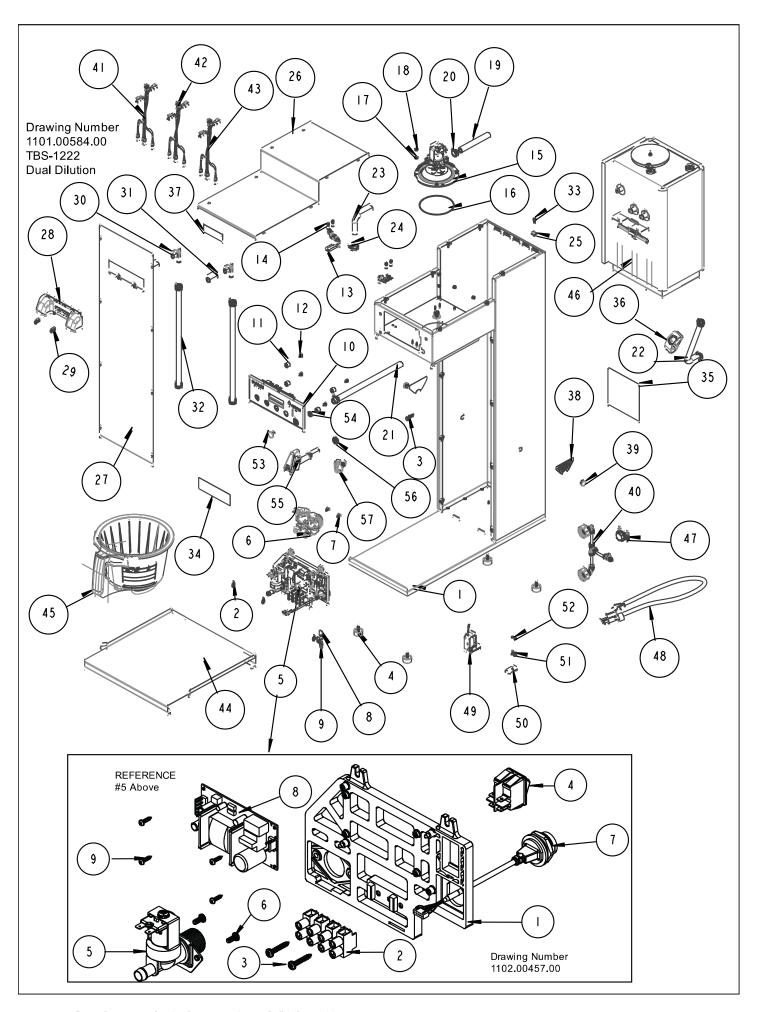
Electrical installation and service is to be made only by licensed electrician.

Disconnect equipment from power supply before service. Equipment may be powered even if power switch is "OFF"

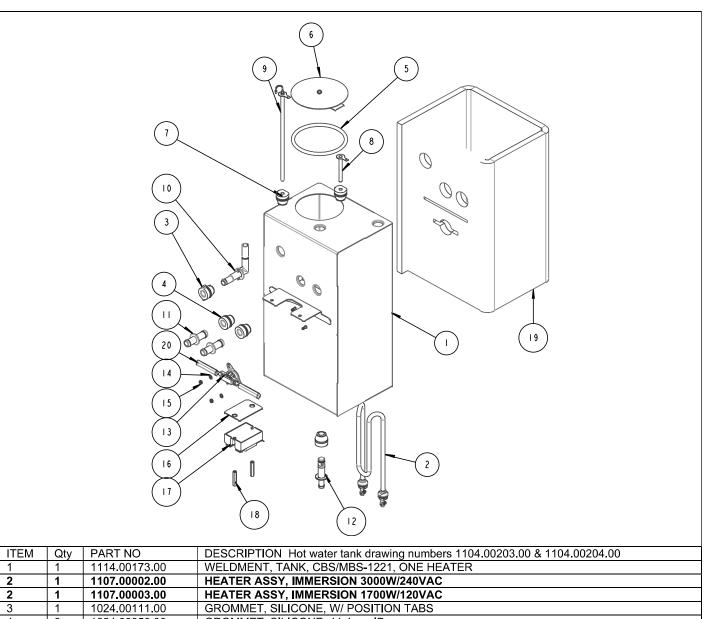
Parts Diagrams



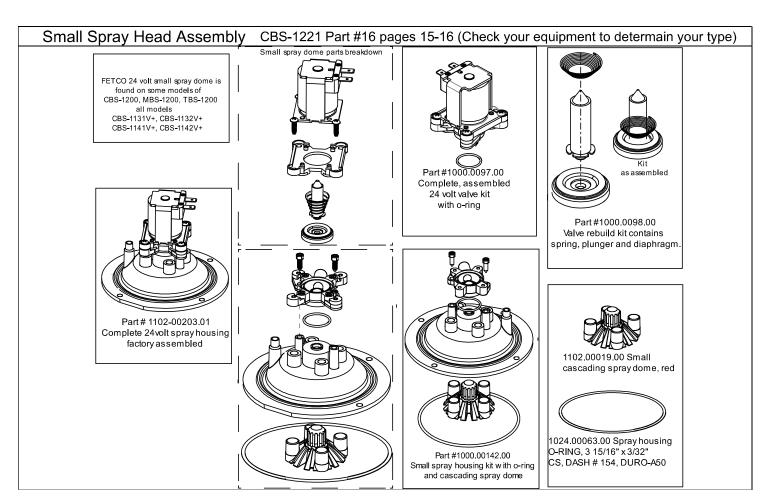
ITEM	Qty	PART NO	DESCRIPTION TBS-1221 SINGLE Drawing number 1101.00583.00
1	1	1111.00111.00	WELDMENT BODY, TBS-1200
2	7	1084.00051.00.	NUT, HEX LOCKWASHER, #8-32, 18-8 ST. STL
3	1	1082.00082.00	SCREW, PHILLIP HD., 8-32 THREAD
4	4	1073.00021.00	FOOT, RUBBER, 1/4-20
5 REF	1	Reference	ELECTRICAL COMPONENT LATTICE, CBS-1200 [P/N 1102.00457.00]
5-1	1 1	1023.00360.00	ELECTRICAL MOUNTING LATTICE, AIR POT
5-2	1	1052.00023.00	EUROSTRIP HE16 TERM. BLOCK, 4 POLE, 63 AMP, 18-8 AWG
5-3	2	1082.00056.00	SCREW, #8-11 X 1" PAN HD PHIL, THREAD FORMING
5-4 5-5	1	1058.00024.00 1057.00043.00	SWITCH, POWER, DOUBLE POLE, 16A, 125/250 VAC SOLENOID VALVE, 5.5L/min, 180 DEG, 24VDC
5-6	2	1082.00010.00	SCREW, PAN HD. PHIL. MACH., M4x10 ZINC-PLATED
5-7	1	1058.00055.00	USB CONNECTOR
5-8	1	1052.00001.00	POWER SUPPLY, 90-264VAC/24VDC, 1.8A
5-9	4	1082.00132.00	SCREW. PAN HD. PHIL. THREAD-FORMING. #4-20x5/16"LG.
6	1	1057,00079.00	FILL VALVE, DOUBLE, 180 DEG, 24VDC, (2.1-2.5L/min INLET FLOW)
7	2	1082.00010.00	SCREW, PAN HD. PHIL. MACH., M4x10 ZINC-PLATED
8	1	1065.00009.00	GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM
9	1	1044.00012.00	LABEL GROUND, CE
10	1	1102.00453.00	ASSEMBLY, FRONT PANEL, CBS-1220
11	4	1023.00361.00	SPACER, UNTHREADED, 1/2"OD X 3/8" LONG
12	4	1082.00115.00	SCREW, #6 x 3/8" LG., SLOTED HEX HD. WASHER
13	1	1102.00113.00	SWITCH, REED, ASSEMBLY
14	2	1029.00006.00	NUT, FINGER KNURLED, #4-40
15	1	1102.00203.01	ASSEMBLY, SPRAY HOUSING, DSVP11 DESIGN, NO VENT
16	1	1024.00063.00	O-RING, 3 15/16" x 3/32" CS, DASH # 154, BUNA-N, DURO-A50
17	4	1083.00010.00	WASHER, #10 SCREW W/NEOPRENE-BONDED SEAL
18	4	1084.00006.00	NUT, 8-32 18-8 HEX MACHINE SCREW
19 20	10	1025.00013.00 1086.00003.00	TUBE, 5/8"OD X 3/8"ID X 4,5"LG UNICLAMP, 15.9 HOSE OD CLAMP
21	10	1025.00110.00	TUBE DRAIN, 5/8"OD X 3/8"ID X 10" LG.
22	1	1025.00058.00	TUBE, 9/16"OD X 5/16"ID X 25.00"LG
23	1	1025.00061.00	TUBE, 9/16'OD X 5/16"ID X 2.75"LG
24	1	1086.00002.00	CLAMP, HOSE, SIZE "G" NYLON
25	16	1084.00011.00	NUT, CLIP ON (J-NUT), #6-32, 22-20 GA., BLK-PH FINISH
26	1	1001.00455.00	TOP COVER, MBS/TBS-1200, LARGE
27	1	1112.00548.00	WELDMENT FRONT COVER, MBS-1221
28	1	1023.00397.00	FAUCET, DILUTION, SINGLE, BLACK
29	2	1082.00058.00	SCREW, # 8-32 X 5/8, FLAT HD, PH, 18-8 SS
30	1	1023.00183.00	FITTING, ELBOW, GROMMET, .375"
31	1	1025.00022.00	TUBE, 5/8"OD X 3/8"ID X 1.25LG., BY-PASS
32	1	1025.00068.00	TUBE, 9/16"OD X 5/16"ID X 21.75"LG
33	16	1082.00017.00.	SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG
34	1 1	1046.00003.00	LABEL, CSD WARNING, 1.5" X 5.0"
35	1	1046.00035.00	LABEL, WARNING "TO REDUCE RISK OF ELECTRIC SHOCK OR FIRE"
36 37	1	1086.00009.00	CLAMP, 3/4" MAX TUBE OD FLOW CONTROL
38		1041.00034.00 1046.00006.00	GREEN TEAVARIS PLUS LABEL, LASER ENGRAVED LABEL, WARNING, "HOT WATER FAUCET"
39	2	1086.00047.00	CAP PLUG, PANEL, 15/32 ID x 5/8 OD, TBS-2111
40	1	1102.00488.00	ASSEMBLY, DUAL WATER INLET CONNECTOR
41	1	1402.00113.00	WIRE HARNESS ADDITION, POWER SUPPLY GROUND
42	1	1402.00118.00	WIRE HARNESS, MBS-1221, HIGH AMP
43	1	1402.00119.00	WIRE HARNESS, MBS-1221, LOW AMP
44	2	1025.00076.00	TUBE, 5/8 OD x 3/8 ID x 3.75 LG.
45	1	1029.00002.00	FITTING, HOSE BARB TEE, SIZE 3/8"
46	1	B020000G2BK	BREW BASKET ASSY,BLACK, TBS, GREEN HANDLE PLUG
47	1	1104.00204.00	TANK ASSEMBLY, CBS/MBS-1221/TBS, 1.7kW/120VAC
47	1	1104.00203.00	TANK ASSEMBLY, TBS/CBS/MBS-1221, 3.2kW/240VAC
48	1	1086.00008.00	CONNECTOR, CLAMP, NON-METALLIC CABLE, 3/4"
49	1	1063.00016.00	POWER CORD, 120VAC W/NEMA 5-15P PLUG
49	1	1063.00030.00	CORD PWR, 16A/250VAC, EU1-16P PLUG, W/O CONNECTORS, CE (EXPORT)
50	1	1102.00219.00	ASSEMBLY, BB LOCKER, 24VDC
51	1	1003.00259.00	BRACKET, BREW BASKET LOCK COVER
52	2	1083.00011.00	WASHER, #8 SCREW SIZE, INTERNAL TOOTH LOCK
53	2	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
54	1	1023.00399.00	HOT WATER PLUG & CONNECTOR
55	1	1083.00023.00	WASHER, 1/4" SCREW SIZE, FLAT
56 57	1	1071.00055.00 1084.00048.00	FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS
58	1	1023.00147.00	PLUG, TANK SERVICE DRAIN FOR 18 GA AND UP BODY
50	1 1	1023.00147.00	1 LOO, TAIN SLIVICE DIVALING ON TO GA AND OF BOOT



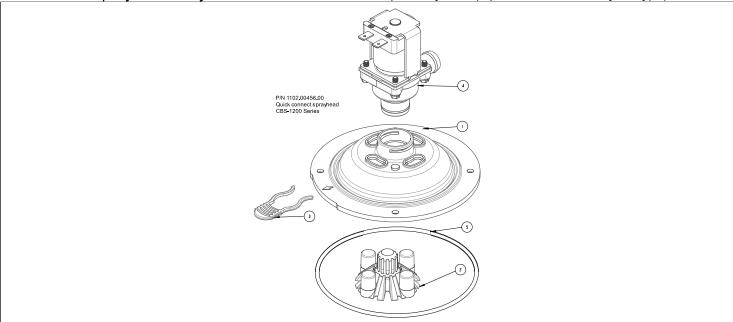
1	ITEM	Qtv	PART NO	DESCRIPTION TBS-1222 DUAL Dilution Drawing number 1101.00584.00	
7					
1 1092.00982.00 SCREW, PHILLIP HD, 8-32 THREAD				,	
4 1073,00201,00 FOOT, RUBBER, 14-20 51-1 1 1023,00380,00 ELECTRICAL COMPONENT LATTICE, CBS-1200 [PN 1102,00457.00] 51-2 1 1023,00380,00 ELECTRICAL MOUNTING LATTICE, AR POT 52-2 1 1082,00055.00 SCREW, #8-11 X 1" PAN HD PHIL, THREAD FORMING 53-3 2 1082,00055.00 SCREW, #8-11 X 1" PAN HD PHIL, THREAD FORMING 54-1 1 1085,00043.00 SULPOSTRIPH FEIG TERM, BLOCK, 4 POLE, 83 AMP, 18-8 AWG 55-6 1 1085,00043.00 SULPOSTRIPH FEIG TERM, BLOCK, 4 POLE, 83 AMP, 18-8 AWG 55-6 1 1085,00043.00 SULPOSTRIPH, 18-0 TER, 24 AWG 55-7 1 1085,00055.00 SCREW, PAN HD, PHIL, THREAD FORMING, #41-20.5/16*LG. 57-7 1 1085,00055.00 USB CONNECTOR 58-8 1 1082,00013.00 SCREW, PAN HD, PHIL, THREAD-FORMING, #41-20.5/16*LG. 58-8 1 1082,00013.00 SCREW, PAN HD, PHIL, THREAD-FORMING, #41-20.5/16*LG. 59-9 4 1082,00113.00 SCREW, PAN HD, PHIL, THREAD-FORMING, #41-20.5/16*LG. 51 1087,00071.00 FILL VALVE, DOUBLE, 18:00 EQ, 24VDC, (2-1-2 SL-min INLET FLOW) 51 1082,00011.00 SCREW, PAN HD, PHIL, THREAD-FORMING, #41-20.5/16*LG. 51 1082,00011.00 SCREW, PAN HD, PHIL, MACH, MARIO ZINC-PLATED 51 1082,00011.00 SCREW, PAN HD, PHIL, MACH, MARIO ZINC-PLATED 51 1082,00011.00 SCREW, PAN HD, PHIL, MACH, MARIO ZINC-PLATED 51 1 1084,00012.00 LABBE GROUND, CE 51 1 1084,00012.00 SCREW, PAN SCREW, PAN HD, PHIL, MACH, MARIO ZINC-PLATED 51 1 1082,00013.00 SCREW, PAN SCREW, PAN HD, PHIL, MACH, MARIO ZINC-PLATED 51 1 1082,00013.00 SCREW, PAN SCREW, PAN HD, PHIL, MACH, MARIO ZINC-PLATED 51 1 1082,00013.00 SCREW, PAN SCREW, PAN HD, PHIL, MACH, MARIO ZINC-PLATED 51 1 1082,00013.00 SCREW, PAN SCREW, PAN SCREW, PAN HD, PHIL, MACH, MARIO ZINC-PLATED 51 1 1082,00013.00 SCREW, PAN SCREW, PAN ED, PAN HD, PHIL, PAN SCREW, PAN HD, PHIL, PAN HD, PAN					
6 REF 1 Reference ELECTRICAL COMPONENT LATTICE, CRP POT 5-1 1 1032300380.00 ELECTRICAL MOUNTING LATTICE, AIR POT 5-2 1 105200023.00 ELECTRICAL MOUNTING LATTICE, AIR POT 5-3 2 108200056.00 SCREW, MRI 11 Y TPAN HD PHIL, THREAD FORMING 5-4 1 108200050.00 SCREW, PAIN 11 Y TPAN HD PHIL, THREAD FORMING 5-5 1 108200010.00 SCREW, PAIN HD. PHILL MACH, MAY 2 INIO-PLATED 5-6 2 108200010.00 SCREW, PAIN HD. PHILL MACH, MAY 2 INIO-PLATED 5-7 1 108200010.00 POWER SUPPLY, 90-264VAC/24VDC, 1.5A 5-8 1 108200010.00 POWER SUPPLY, 90-264VAC/24VDC, 1.5A 5-9 4 108200010.00 SCREW, PAN HD. PHILL MACH, MAY 02 INIO-PLATED 6 1 105700070.00 FILL VALVE, DOUBLE, 180 DEG, 24VDC, (2.1-2.5L/min INLET FLOW) 7 2 108200010.00 SCREW, PAN HD. PHILL MACH, MAY 03 ALWAR, ALWIMNUM 8 1 1095000000.00 GROUND LUG GONNECTOR, 1-2-2 MWG, ALWIMNUM 9 1 1044400012.00 SCREW, MA, AL					
6-1 1 1023,09360,00 ELECTRICAL MOUNTING LATTICE, AIR POT 6-2 1 1082,00036,00 EUROSTRIP HE16 TERRA BLOCK, 4 POLE, 63 AMP, 18-8 AWG 6-3 2 1082,00034,00 SMTCH, POWER, DOUBLE FOLE, 164, 125/50 VAC 6-4 1 1053,00043,00 SOEREW, #8-11 X I* PAN HD PHIL, MACH, MAY LO JES/50 VAC 6-5 2 1082,00010,00 SCREW, PAN HD, PHIL, MACH, MAY LO JENC-PLATED 6-7 1 1068,00055,00 USB CONNECTOR 8-8 1 1052,000010,0 POWER SUPPLY, 90-264VAC/24VDC, 1.8A 5-9 4 1062,00013,00 POWER SUPPLY, 90-264VAC/24VDC, 1.8A 5-9 4 1062,00013,00 PORCREW, PAN HD, PHIL, MAKHO, MAKHO, ZINC-PLATED 7 2 1082,00013,00 GROUND, LOE CONNECTOR 8 1 1066,00009,0 GROUND, LOE CONNECTOR, 1-22 AWG, ALUMNUM 9 1 1044,00012,00 LABEL GROUND, CE 11 4 1022,00351,00 SASCERL, VINTHREADED, 1,2*OD X,38* LONG 11 4 1022,0031,00 SARCER, LOTTED HEA HD, WASHER 12		<u> </u>		, ,	
6-2 1 1092.00933.00 EVROSTRIP HE16 TERM. BLOCK, 4 POLE. 63 AMP, 1-8 AWG 6-3 2 1082.00956.00 SCREW, PA I'S 1'Y RAN ID PHIL, THREAD FORMING 6-4 1 1098.00924.00 SMTCH, POWER, DOUBLE POLE. 16A, 129/20 VAC 6-5 1 1057.00043.00 SOLENOID VALVE, 5 SLIMIN, 180 DEG, 24/DC 6-6 2 1082.0013.00 USB CONNECTOR 7-7 1 1053.00055.00 USB CONNECTOR 8-8 1 1052.00010.00 SCREW, PAN HD, PHIL, THREAD-PORNING, #4-20x5/16*LG. 8-9 4 1082.00010.00 SCREW, PAN HD, PHIL, THREAD-PORNING, #4-20x5/16*LG. 8-1 1057.00079.00 SCREW, PAN HD, PHIL, MACH, MAYLO ZIMC-PLATED 8-1 1050.00010.00 SCREW, PAN HD, PHIL, MACH, MAYLO ZIMC-PLATED 8-1 1050.00079.00 GROUND LUG CONNECTOR, 1-2 AWG, ALUMINUM 9-1 1044.00012.00 CARSEMBLY, FRONT FANEL, CBS-1220 10 1 1102.00453.00 SPACER, LWITHREADED, 12°DO X 3'8'B LONG 12 4 1092.00453.00 SPACER, LWITHREADED, 12°CO X 3'8'B LONG 12 4 1092.0					
6-3 1 1082.00056.00 SWITCH, POWER, DOUBLE FOLE. 16a. 152/50 VAC 6-4 1 1065.00043.00 SWITCH, POWER, DOUBLE FOLE. 16a. 152/50 VAC 6-5 1 1065.00043.00 SCREW, PAR HD, PHIL, MACH, MAYLO ZINC-PLATED 6-6 2 1082.00010.00 SCREW, PAR HD, PHIL, MACH, MAYLO ZINC-PLATED 5-7 1 1065.00055.00 USB CONNECTOR 6-8 1 1052.00001.00 SCREW, PAR HD, PHIL, THERAD-FORMING, H4-20x61°LG. 6-9 4 1082.00132.00 SCREW, PAR HD, PHIL, MACH, MAYLO ZINC-PLATED 6-9 4 1082.0013.00 SCREW, PAR HD, PHIL, MACH, MAYLO ZINC-PLATED 8 1 1085.00010.00 SCREW, PAR HD, PHIL, MACH, MAYLO ZINC-PLATED 9 1 1044.0012.00 LABEL GROUND, CE 10 1 1102.00453.00 ASSEMBLY. 11 4 1023.00361.00 SPACER, UNTHREADED, 1,270 D X 36" LONG 12 4 1023.00361.00 SPACER, UNTHREADED, 1,270 D X 36" LONG 13 2 1102.00453.00 SASEMBLY. 14 4 10					
6-4 1 1058.00024.00 SQLENDIO VALVE, 5.8L/min, 180 DEG, 24/DC 6-6 2 1082.00010.00 SQLENDIO VALVE, 5.8L/min, 180 DEG, 24/DC 5-7 1 1082.00010.00 SCREW, PAN HO, PHIL, MACH, MAY10 ZINC-PLATED 5-7 1 1058.00050.00 USB CONNECTOR 6-8 1 1052.00001.00 SCREW, PAN HO, PHIL, THREAD-PGRINING, M4-20x6/16°LG, 6-9 4 1082.0010.00 SCREW, PAN HO, PHIL, THREAD-PGRINING, M4-20x6/16°LG, 7 2 1082.00010.00 SCREW, PAN HO, PHIL, THREAD-PGRINING, M4-20x6/16°LG, 8 1 1082.00010.00 SCREW, PAN HO, PHIL, MACH, MAY10 ZINC-PLATED 9 1 1044.00012.00 LABEL, GROUND, CE 10 1 1102.00453.00 ASSEMBLY, FRONT PANEL, GBS-1220 11 4 1022.00350.0 ASSEMBLY, FRONT PANEL, GBS-1220 12 4 1082.0015.00 SORCEW, M6 x 3.8° LG, SLOTTED HEX HD, WASHER 13 2 1102.0015.00 SCREW, M6 x 3.8° LG, SLOTTED HEX HD, WASHER 14 4 1022.00065.00 NUT; FINGER KNURLED, #4-20					
6-5 1 1057,00043,00 SOLENOID VALVE, 5.5Lmin, 180 DEG, 24VDC 5-6 2 1082,00010,00 SCREW, PAN HO, PHILL MACH, M4410 ZINC-PLATED 5-7 1 1052,00011,00 SCREW, PAN HO, PHILL THREAD-FORMING, #4-20x5/16*LG. 5-8 1 1052,00013,00 SCREW, PAN HO, PHILL THREAD-FORMING, #4-20x5/16*LG. 5-9 4 1052,00013,00 FILL VALVE, DOUBLE, IT BIO BEG, 24VDC, (2.1-2.5Lmin INLET FLOW) 7 2 1062,00010,00 SCREW, PAN HO, PHILL MACH, M4x10 ZINC-PLATED 8 1 1064,00012.00 LABEL GROUND, CE 9 1 1044,00012.00 LABEL GROUND, CE 10 1 1102,00053.00 ASSEMBLY, FRONT PANEL, CBS-1220 11 4 1023,00361.00 SCREW, M6 × 3/8** ICS, LOTTEO HEX HD, WASHER 12 4 1022,00113.00 SCREW, M6 × 3/8** ICS, LOTTEO HEX HD, WASHER 13 2 1102,00113.00 SCREW, M6 × 3/8** ICS, LS, LOTTEO HEX HD, WASHER 14 1022,00013.00 NUT, FINGER KHURLE, M4-10 ASSEMBLY, SPRAY HOUSING, DSVP11 DESIGN, NO VENT 15 1 1102,000303.01		_			
6-6 2 1082.00010.00					
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6-89 1 1052,00001.00 POWER SUPPLY, 90-264/ADC/24/DC, 1.8A 5-99 4 1082,0013.00 SCREW, PAN H.D. PHIL. THREAD-FORMING, #4-20x5/16*I.C. 6 1 1057,00078.00 SCREW, PAN H.D. PHIL. THREAD-FORMING, #4-20x5/16*I.C. 7 2 1082,00010.00 SCREW, PAN H.D. PHIL. MACH. MAY10 ZINC-PLATED 8 1 1082,00010.00 SCREW, PAN H.D. PHIL. MACH. MAY10 ZINC-PLATED 9 1 1044,00012.00 LABEL GROUND, CE 10 1 1102,00433.00 ASSEMBLY, FRONT PANEL, CBS-1220 11 4 1023,00361.00 SCREW, MR S 3/8*I.G. SLOTTED HEX HD. WASHER 12 4 1082,00115.00 SCREW, MR S 3/8*I.G. SLOTTED HEX HD. WASHER 13 2 1102,00113.00 SWITCH, REED, ASSEMBLY. 14 4 1029,00006.00 NUT, FRAST YOUSING, DSVP11 DESIGN, NO VENT 15 1 1102,00030.00 NUT, REST 2.18 a HEX MACHINE SCREW 16 1 1024,00063.00 O-RING, 3 15/6*Y 33/2*CS, DASH #I 154, BUNA-N, DURO-A50 17 4 1083,00013.00 NUT, BLST 2.18 a HEX MACHINE SCREW					
6-9 4 1082.00132.00 SCREW, PAN HD. PHIL. THREAD-FORMING, #4-20x5/16*LG. 6 1 1057.00079.00 FILL VALVE, DOUBLE, 180 DEG, 24VOC, (2.1-25.L/min INLET FLOW) 7 2 1082.00010.00 SCREW, PAN HD. PHIL. MACH, M4x10 ZINC-PLATED 8 1 1045.00012.00 LABEL GROUND, CE 9 1 1044.0012.00 LABEL GROUND, CE 10 1 1102.0043.00 ASSEMBLY, FRONT PANEL CBS-1220 11 4 1023.00361.00 SCREW, BY S. 3/8" LG, SLOTTED HEX HD. WASHER 12 4 1082.00115.00 SCREW, BY S. 3/8" LG, SLOTTED HEX HD. WASHER 13 2 1102.00113.00 SWITCH, REED, ASSEMBLY 14 4 1029.00008.00 NUT, FINCER KWURLED #44D 15 1 1022.00013.01 ASSEMBLY, SPRAY YOUSING, DSVPH 1 DESIGN, NO VENT 16 1 1024.00083.00 CARRO, \$15/18" X 302" CS, DASH # 154, BUNAN, DURC-A50 17 4 1083.00010.00 WASHER, #10 SCREW WINED-PRENE-GONDED SEAL 18 4 1084.00010.00 TUBE, 59/16"OD X 5/16"ID X 4.5"LG 20 <t< td=""><td></td><td>_</td><td></td><td></td></t<>		_			
6 1 1057,00079.00 FILL VALVE, DOUBLE, 180 DEG, 24VDC, (2.1-2.5L/min INLET FLOW) 7 2 1082,00010.00 SCREW, PAN HD, PHILL MACH, MAYD 2TINC-PLATED 8 1 1085,0009.00 SCREW, PAN HD, PHILL MACH, MAYD 2TINC-PLATED 9 1 1044,00012.00 LABEL GROUND, CE 10 1 1102,00453.00 ASSEMBLY, FRONT PANEL, CBS-1220 11 4 1023,00361.00 SACERE, WHTHERADED, 12/200 X 38" LOK 12 4 1028,00015.00 SCREW, #6 x 3/8" LG., SLOTTED HEX HD, WASHER 13 2 1102,00113.00 SWITCH, REED, #4-10 14 4 1029,00006.00 NUT, FINDER RIVINELE, #4-10 15 1 11024,00063.00 O-RING, 3 15/16" x 323" CS, DASH #1 154, BUNAN, DURO-A50 17 4 1083,00010.00 NUT, BS, 221-88 HEX MACHINE SCREW 19 1 1025,00013.00 TUBE, 58/20 DX 3/8" DX 16" LG. 19 1 1025,00013.00 TUBE, 58/20 DX 3/8" DX 16" LG. 20 8 1086,00003.00 TUBE, 58/20 DX 3/8" DX 16" LG. 21 1					
7 2 1082.00010.00 SCREW, PAN HD. PHIL. MACH., M4x10 ZINC-PLATED 8 1 1086.0000.00 GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM 9 1 1044.00012.00 LABEL GROUND. CE 10 1 1102.00453.00 ASSEMBLY, FRONT PANEL, CBS-1220 11 4 1023.00361.00 SPACER, UNTHREADED, 1/2°OD X 3/8" LONG 12 4 1062.00113.00 SWITCH, REED, ASSEMBLY 13 2 1102.00113.00 SWITCH, REED, ASSEMBLY 14 4 1029.00006.00 NUT, FINGER KNURLED, #4-40 15 1 1102.00013.01 ASSEMBLY, SPRAY HOUSING, DSVP11 DESIGN, NO VENT 16 1 1024.00063.00 VASHER, #10 SCREW WINEOPREN-BONDED SEAL 17 4 1083.00010.00 WASHER, #10 SCREW WINEOPREN-BONDED SEAL 18 4 1084.00006.00 UTJ, 8-32 18-8 HEX MACHINE SCREW 20 8 1086.00010.00 UTJ, 8-32 18-9 HEX MACHINE SCREW 21 1 1025.00010.00 UTJ, 8-32 18-9 HEX MACHINE SCREW 22 1 1025.00058.00 <					
8 1 1065,00009.00 GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM 9 1 1044,00012.00 LABEL GROUND, CE 10 1 1102,00453.00 ASSEMBLY, FRONT PANEL, CBS-1220 11 4 1023,00361.00 SCREW, #6 x 38" LONG 12 4 1062,00115.00 SCREW, #6 x 38" LG, SLOTTED HEX HD, WASHER 13 2 1102,00113.00 SWITCH, REED, ASSEMBLY 14 4 1029,00006.00 NUT, FINGER KINURLED, #4-40 15 1 11024,00063.00 O-RING, 3 15/6" STAZ" CS, DASH # 154, BUNAN, DURO-A50 16 1 1024,00063.00 O-RING, 3 15/6" STAZ" CS, DASH # 154, BUNAN, DURO-A50 17 4 1083,00010.00 NUT, B-SZ 12-8 HEX MACHINE SCREW 18 4 1084,0006.00 NUT, B-SZ 12-8 HEX MACHINE MCHINE 19 1 1025,00013.00 TUBE, 58" OD X 38" ID X 10" LG. 21 1 1025,00058.00 TUBE, 916" OD X 5/16" ID X 2.75" LG 21 1 1025,00058.00 TUBE, 916" OD X 5/16" ID X 2.75" LG 22 1 </td <td></td> <td>_</td> <td></td> <td></td>		_			
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24 1 1086.00002.00 CLAMP, HOSE, SIZE "G" NYLON 25 16 1084.00011.00 NUT, CLIP ON (J-NUT), #6-32, 22-20 GA., BLK-PH FINISH 26 1 1001.00455.00 TOP COVER, MBS/TBS-1200, LARGE 27 1 1112.00548.00 WELDMENT FRONT COVER, MBS-1221 28 1 1023.00402.00 FAUCET, DUAL DILUTION, TBS, BLACK 29 2 1082.00058.00 SCREW, #8-32 X 5/8, FLAT HD, PH, 18-8 SS 30 2 1023.00183.00 FITTING, ELBOW, GROMMET, .375" 31 2 1025.00022.00 TUBE, 5/8"OD X 3/8"ID X 1.25LG, BY-PASS 32 2 1025.00068.00 TUBE, 5/8"OD X 3/8"ID X 1.25LG, BY-PASS 33 16 1082.00017.00 SCREW, TRUSS HD. PHIL, MACHINE, #6-32 X 1/2 LG. 34 1 1046.00003.00 LABEL, CSD WARNING, 1.5" X 5.0" 35 1 1046.00035.00 LABEL, WARNING "TO REDUCE RISK OF ELECTRIC SHOCK OR FIRE" 36 1 1046.00035.00 LABEL, WARNING, "HOT WATER FAUCET" 37 1 1041.00034.00 GREEN TEAVARIS PLUS LABEL, LASER ENGRAVED					
25					
26 1 1001,00455,00 TOP COVER, MBS/TBS-1200, LARGE 27 1 11112,00548,00 WELDMENT FRONT COVER, MBS-1221 28 1 1023,00402,00 FAUCET, DUAL DILLUTION, TBS, BLACK 29 2 1082,00058,00 SCREW, # 8-32 X 5/8, FLAT HD, PH, 18-8 SS 30 2 1023,00183,00 FITTING, ELBOW, GROMMET, 375" 31 2 1025,00022,00 TUBE, 5/8°DD X 1/25EL, BY-PASS 32 2 1025,00068,00 TUBE, 9/16°DD X 5/16"ID X 21.75"LG 33 16 1082,00017.00 SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG. 34 1 1046,00003.00 LABEL, CSD WARNING, 1.5" X 5.0" 35 1 1046,00035.00 LABEL, WARNING "TO REDUCE RISK OF ELECTRIC SHOCK OR FIRE" 36 1 1086,0009.00 CLAMP, 3/4" MAX TUBE OD FLOW CONTROL 37 1 1041,00034.00 GREEN TEAVARIS PLUS LABEL, LASER ENGRAVED 38 2 1046,00006.00 LABEL, WARNING, "HOT WATER FAUCET" 39 2 1086,0007.00 CAP PLUG, PANEL, 15/32 ID X 5/8 OD, TBS-2111 40 <td></td> <td></td> <td></td> <td></td>					
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28 1 1023.00402.00 FAUCET, DUAL DILUTION, TBS, BLACK 29 2 1082.00058.00 SCREW, # 8-32 X 5/8, FLAT HD, PH, 18-8 SS 30 2 1023.00183.00 FITTING, ELBOW, GROMMET, 375" 31 2 1025.00068.00 TUBE, 5/8"OD X 3/8"ID X 1.25LG, BY-PASS 32 2 1025.00068.00 TUBE, 9/16"OD X 5/16"ID X 21.75"LG 33 16 1082.0007.00 SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG. 34 1 1046.00035.00 LABEL, CSD WARNING, 1.5" X 5.0" 35 1 1046.00035.00 LABEL, WARNING "TO REDUCE RISK OF ELECTRIC SHOCK OR FIRE" 36 1 1086.00093.00 CLAMP, 3/4" MAX TUBE OD FLOW CONTROL 37 1 1041.00034.00 GREEN TEAVARIS PLUS LABEL, LASER ENGRAVED 38 2 1046.000047.00 CAP PLUG, PANEL, 15/32 ID x 5/8 OD, TBS-2111 40 1 1102.00488.00 ASSEMBLY, DUAL WATER INLET CONNECTOR 41 1 1402.00113.00 WIRE HARNESS, MBS-1221, LOW AMP 42 1 1402.00119.00 WIRE HARNESS, MBS-1221, LOW AMP					
29		_			
30					
31					
32 2 1025.00068.00 TUBE, 9/16"OD X 5/16"ID X 21.75"LG 33 16 1082.00017.00 SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG. 34 1 1046.00003.00 LABEL, CSD WARNING, 1.5" X 5.0" 35 1 1046.00035.00 LABEL, WARNING "TO REDUCE RISK OF ELECTRIC SHOCK OR FIRE" 36 1 1086.0009.00 CLAMP, 3/4" MAX TUBE OD FLOW CONTROL 37 1 1041.00034.00 GREEN TEAVARIS PLUS LABEL, LASER ENGRAVED 38 2 1046.00006.00 LABEL, WARNING, "HOT WATER FAUCET" 39 2 1086.00047.00 CAP PLUG, PANEL, 15/32 ID x 5/8 OD, TBS-2111 40 1 1102.00488.00 ASSEMBLY, DUAL WATER INLET CONNECTOR 41 1 1402.00113.00 WIRE HARNESS ADDITION, POWER SUPPLY GROUND 42 1 1402.00118.00 WIRE HARNESS, MBS-1221, HIGH AMP 43 1 1402.00119.00 WIRE HARNESS, MBS-1221, LOW AMP 44 1 1001.00456.00 BASE, DOUBLE, TBS-1222 45 1 B01300062BK BREW BASKET ASSY, BLACK, DUAL TEA, GREEN HANDLE PLUG					
33 16 1082.00017.00 SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG. 34 1 1046.0003.00 LABEL, CSD WARNING, 1.5" X 5.0" 35 1 1046.00035.00 LABEL, WARNING "TO REDUCE RISK OF ELECTRIC SHOCK OR FIRE" 36 1 1086.0009.00 CLAMP, 3/4" MAX TUBE OD FLOW CONTROL 37 1 1041.00034.00 GREEN TEAVARIS PLUS LABEL, LASER ENGRAVED 38 2 1086.00047.00 CAP PLUG, PANEL, 15/32 ID x 5/8 OD, TBS-2111 40 1 1102.00488.00 ASSEMBLY, DUAL WATER INLET CONNECTOR 41 1 1402.00113.00 WIRE HARNESS ADDITION, POWER SUPPLY GROUND 42 1 1402.00118.00 WIRE HARNESS, MBS-1221, HIGH AMP 43 1 1402.00119.00 WIRE HARNESS, MBS-1221, LOW AMP 44 1 1001.00456.00 BASE, DOUBLE, TBS-1222 45 1 B013000G2BK BREW BASKET ASSY, BLACK, DUAL TEA, GREEN HANDLE PLUG 46 1 1104.00204.00 TANK ASSEMBLY, CBS/MBS-1221, 1.7kW/120VAC 47 1 1086.00008.00 CONNECTOR, CLAMP, NON-METALLIC CABLE, 3/4"					
34 1 1046.00033.00 LABEL, CSD WARNING, 1.5" X 5.0" 35 1 1046.00035.00 LABEL, WARNING "TO REDUCE RISK OF ELECTRIC SHOCK OR FIRE" 36 1 1086.00099.00 CLAMP, 3/4" MAX TUBE OD FLOW CONTROL 37 1 1041.00034.00 GREEN TEAVARIS PLUS LABEL, LASER ENGRAVED 38 2 1046.0006.00 LABEL, WARNING, "HOT WATER FAUCET" 39 2 1086.00047.00 CAP PLUG, PANEL, 15/32 ID x 5/8 OD, TBS-2111 40 1 1102.00488.00 ASSEMBLY, DUAL WATER INLET CONNECTOR 41 1 1402.00113.00 WIRE HARNESS ADDITION, POWER SUPPLY GROUND 42 1 1402.00118.00 WIRE HARNESS, MBS-1221, HIGH AMP 43 1 1402.00119.00 WIRE HARNESS, MBS-1221, LOW AMP 44 1 1001.00456.00 BASE, DOUBLE, TBS-1222 45 1 B013000G2BK BREW BASKET ASSY, BLACK, DUAL TEA, GREEN HANDLE PLUG 46 1 1104.00204.00 TANK ASSEMBLY, CBS/MBS-1221, 1.7kW/120VAC 47 1 1086.00008.00 CONNECTOR, CLAMP, NON-METALLIC CABLE, 3/4"		_			
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56 1 1084.00048.00 JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS		1		WASHER, 1/4" SCREW SIZE, FLAT	
		1	1071.00055.00		
57 1 1023.00147.00 PLUG, TANK SERVICE DRAIN FOR 18 GA AND UP BODY		1	1084.00048.00	JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS	
	57	1	1023.00147.00	PLUG, TANK SERVICE DRAIN FOR 18 GA AND UP BODY	



ITEM	Qty	PART NO	DESCRIPTION Hot water tank drawing numbers 1104.00203.00 & 1104.00204.00
1	1	1114.00173.00	WELDMENT, TANK, CBS/MBS-1221, ONE HEATER
2	1	1107.00002.00	HEATER ASSY, IMMERSION 3000W/240VAC
2	1	1107.00003.00	HEATER ASSY, IMMERSION 1700W/120VAC
3	1	1024.00111.00	GROMMET, SILICONE, W/ POSITION TABS
4	3	1024.00050.00	GROMMET, SILICONE, 11.4mm ID
5	1	1024.00007.00	O-RING, DASH #344, TANK COVER
6	1	1102.00207.00	TANK COVER ASSEMBLY, TBS-2121
7	2	1024.00062.00	GROMMET, SHORT, SILICONE, LEVEL AND TEMP PROBE
8	1	1112.00002.00	PROBE WELDMENT, WATER LEVEL 2.25" LG
9	1	1102.00161.00	PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG
10	1	1023.00362.00	FITTING VENT, ELBOW, .375" X .375", SELF POSITIONING
11	2	1023.00167.00	FITTING, STRAIGHT, GROMMET, .500"
12	1	1023.00166.00	FITTING, COLD WATER INLET, GROMMET DESIGN
13	1	1053.00051.00	THERMOSTAT, SINGLE SHOT, 240V/25A
14	2	1083.00009.00	WASHER, #6 SCREW, INTL TOOTH LOCKWASHER
15	2	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
16	1	1003.00140.00	ALUMINUM BRACKET FOR SSR
17	1	1052.00033.00	RELAY, SOLID STATE, 50A/480VAC, W/BUILD IN VARISTOR
18	2	1081.00042.00	STANDOFF, 1/4" HEX
19	1	1022.00112.00	TANK INSULATION, CBS-1221
20	2	1022.00032.00	SLEEVE, Ø.50 x 2.0" LG. x 1.50" SLOT



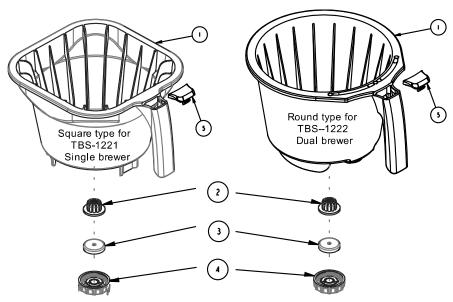
Small Spray Assembly Parts List-alternate version (Check your equipment to determain your type)



ITEM	Qty	PART NO	DESCRIPTION Drawing number 1101.00569.00
1	1	1000.00142.00	BASE, QUICK CONNECT SPRAY HEAD, RETROFIT
2	1	1102.00479.00	ASSEMBLY, CASCADE SPRAY DOME, NEXT GEN, ORANGE
3	1	1023.00342.00	QUICK CONNECT CLIP
4	1	1057.00076.00	VALVE ASSEMBLY, COMPLETE, NG, DELTROL(interchangeable with 1057.00078.00)
4	1	1057.00078.00	VALVE ASSEMBLY, COMPLETE, NG, RPE (interchangeable with 1057.00076.00)
5	1	1024.00063.00	O-RING, 3 15/16" x 3/32" CS, DASH # 154, BUNA-N, DURO-A50
NS	4	1083.00010.00	WASHER, #10 SCREW W/NEOPRENE-BONDED SEAL
NS	4	1084.00006.00	NUT, 8-32 18-8 HEX MACHINE SCREW

Brew Baskets Parts Lists

Brewer systems have two brew basket types:
Square type for TBS-1221 Single brewer
Round type for TBS-1222 Dual brewer



Ref#	Qty	Part Number	Description			
1	1	1023.00289.00	BREW BASKET, 16" X 6"SQUARE-SINGLE BREWER ONLY			
1	1	1023.00182.00	BREW BASKET, ROUND-DUAL BR	REWER ONLY		
2	1	1024.00060.00	STRAINER, SILICONE			
3 *	1	1023.00185.00	ORIFICE, SET OF 9 SEE BELOW*			
4	1	1023.00179.00	NUT, BREW BASKET ORIFICE HC	DLDER		
5	1	1023.00191.00	PLUG, BB HANDLE, GREEN			
NS	1	B020000G2BK	Complete SQUARE Brew basket TE	3S-1221 t→For SINGLE brewer only		
NS 1 B013000G2BK		B013000G2BK	Complete ROUND Brew basket TBS-1222 →For DUAL brewer only			
* Refe	rence #	#3 orifice set size				
0.062			24:30 minutes: seconds			
0.078			17:30 minutes: seconds			
0.086			15:30 minutes: seconds			
0.094			11:30 minutes: seconds			
0.104			10:30 minutes: seconds			
0.104	is DEF	AULT-and is factory	installed on brew basket			
0.125			8:10 minutes: seconds			
0.140			6:10 minutes: seconds			

3:50 minutes: seconds

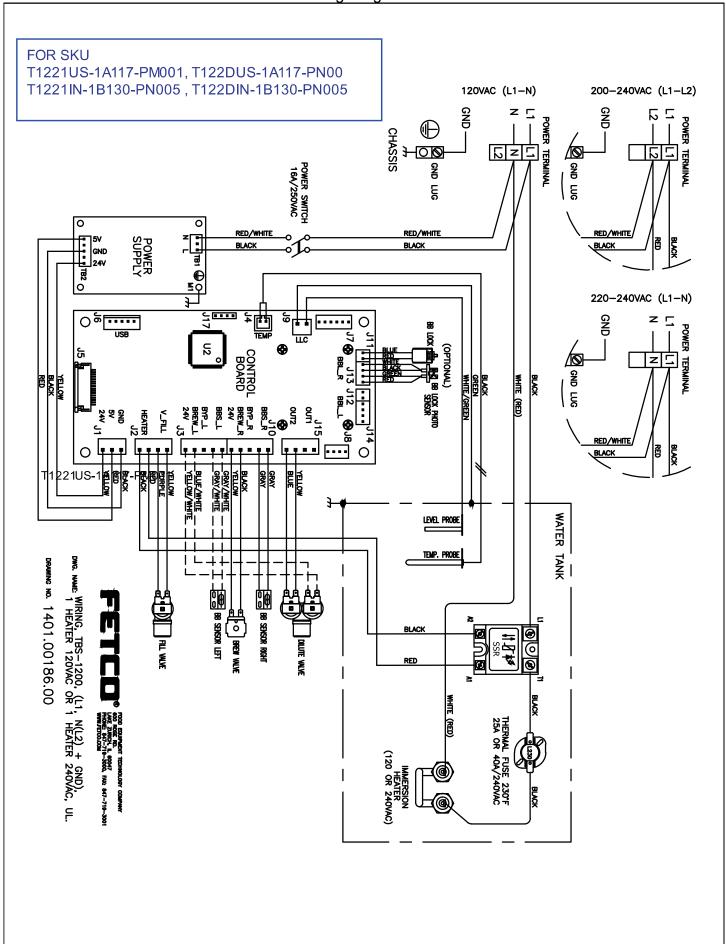
1:20 minutes: seconds

0.180

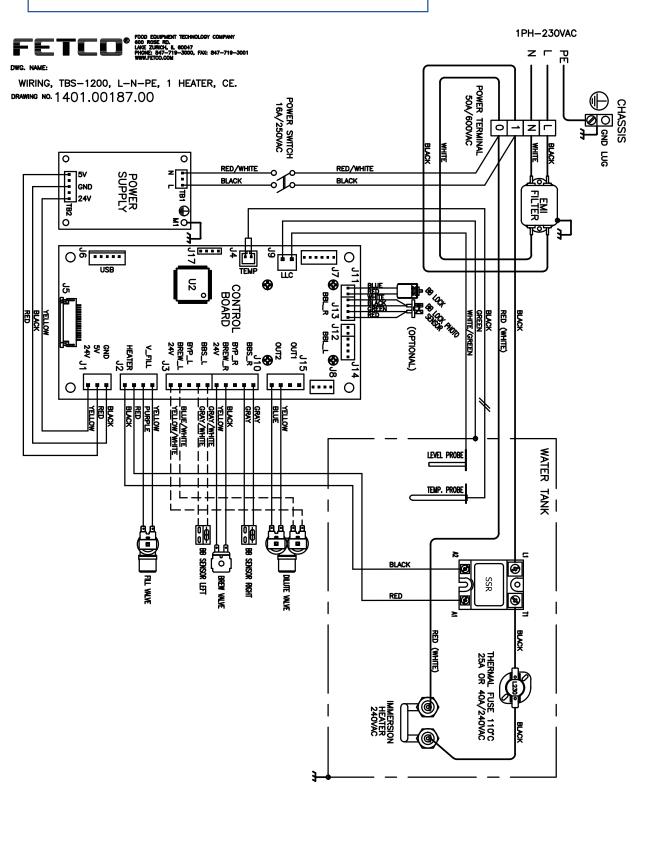
0.280

Orifice inserts for brew basket

0.104 is factory installed



FOR SKU T1221CE-1B130-PN005 CE, T122DCE-1B130-PN005I CE







E URNEX SYSTE M™

BEHIND EVERY GREAT CUP

TABZ EA CLEAN TABLETS

Tea Brewer Cleaner

- Cleans brew basket and serving vessel in one simple
- Specially formulated for the removal of tea stains from tea brewers.
- Regular cleaning ensures fresh tasting brewed tea and properly maintained brewing equipment.
- Tablet form for easy and controlled dosing helps reduce waste and reduce operator error.

Instructions For Use:

















Case and Pallet Inform ation:

Code: 15-T61-UX120 Inner UPC: 7546316037 57 Contents: 120 tblt jar

(4.0 g x 20 mm) Per case: 12 jars

Code: 15-T61-UX120-12 Barcode: 107546316 03754 Inches (Lx W x H): 11 .25 x 8.50 x

Centimeters: 28.6 x 21.6 x 21.6 Weight: 14.6 lbs (6.6 kg)

PALLET

Per Pallet: 102 cases Layout: 6 layers of 17 cases Weight: 1,525 lbs (692 kg) Height: 57 in. (1.45 m)

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NSF Protocol for Health Effects and Corrosivity of Commercial Espresso Machine Chemical Cleaners (2018)

