

FETCO User's Guide and Operator Instructions

CBS-2241 & CBS-2242 Next Generation Brewing System

FETCO Next Generation-NG® Commercial Beverage Equipment





(Plastic brew baskets are standard, brewers availble with optional stainless steel brew baskets)

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CONTACT INFORMATION

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PATENTS:https://www.fetco.com/pl,pages,patents,74.html ©2020-2023 FOOD EQUIPMENT TECHNOLOGIES COMPANY PHONE: (800) 338-2699 (US & CANADA)

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P216 February 2023

COFFEE BREWER CBS-2240NG Series

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Specifications and Requirements	
FETCO CBS-2240 Brewers have unique constr	uction only available for these models.
Water Requirements:	Coffee Filter Size:
CBS-2240 20-75 psig, (138-517kPa) 1½ gpm/(5.7 lpm)	13" X 5 or FETCO# F002"
Optimal water hardness between 125-250 TDS (6-13 grain)	Temperature, as set by factory:
Important! Please use a water filter for all beverage equipment	200°F (93°C) inside water tank (at sea level)
Water inlet fitting: 3/8 inch male flare. Brewer supplied with inlet valve adaptor for BSP to SAE	Electrical: See electrical configuration chart Pg 3.

Brew Volume: Full Batch 3.8 L/1.0 gal brew

Brew Capacity (approximate) CBS-2241 4-10 brews per hour CBS-2242 11-16 brews per hour Output is controlled by heater power and water temperature

Total Brew Cycle: Factory setting: 6 minutes consisting of 4 min. brew time and 2.0 min. drip delay

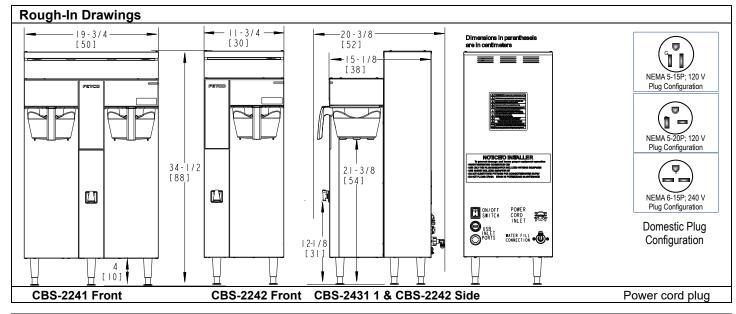
Individual menu brew-process parameters are user controllable for:

Basic user controls for brew volume, brew time, units of measure, recipe name

Advanced user controls for pulse count, prewet percent and prewet delay, drip delay, programmable energy saving

See pages 4-5 for how to adjust controls for temperature, brew volume, units - and all other settings

Weights a	Weights and Capacities									
Model	Height	Width	Depth	Water tank capacity	Empty Weight	Fille Wei		Shipping Weight	Shipping Dimensions	
CBS-2241	34 1/2 in	11 3/4 in	20 3/8 in	4.5 gallon	29 lbs	55 I	lbs	41 lbs	35" x 17" x 22"	
Brewer	880 mm	300 mm	520 mm	17 L	13.2 kg	25.0	0 kg	18.6 kg	88.9 x 43.2 x 55.9 cm	
CBS-2242	34 1/2 in	19 ¾ in	20 3/8 in	8.5 gallon	47 lbs	92 I	lbs	58 lbs	35" x 23" x 25"	
Brewer	880 mm	500 mm	520 mm	32 L 21.3 kg 41.			41.7 kg 26 kg 88.9 x 58.4 x 63.			
Calibrated for	or 1.0 gal b	Brew Basket	13" X 5"		Coffe	e Filter 13" X	5 or FETCO# F002			



SKU NU	SKU NUMBER IDENTIFICATION KEY EXAMPLE: SKU E2241US-1X117-PM001															
Product Line	Le	<u>vel</u>	Fa	mily_	Reg	ion ID	<u>Phase</u>	Voltage Range	# Heaters		ıal Heater ttage	Brew Basket	Hot Water Faucet	<u>Bypass</u>	Brew Basket Locks	Power Cord
Е	2	2	4	1	U	S	1	Α	1	1	5	P	M	0	0	1
E=extractor					_	United ates	1	A = 100-120	1		1.5	P=plastic	M=manual	1=Yes	1=Yes	0=Terminal Block
		PLUS ries		1= e side		N = national	2	B = 200-240	2		1.7	M=metal	A=automatic	0=No	0=No	1= NEMA 5-15P
22=Next Generat				2= I side	CE	= IEC	3	C = 380-415	3	2	2.3	C=metal with clips	N=None			2=NEMA 5-20P
					NM =	NOM =	U = 1 or 3	D = 440-480	6	(3.0					3=NEMA 6-15P
										4	4.0					4=NEMA 6-30P
								X=120 or 240 Dual Voltage		;	5.0					5=CEE 7/7 Schuko
																6=UK1-13P
																7= AUSTRALIAN
																AS3112 (YP-35)

Electrical and Output Specifications

CBS-2241Next Gen Single 3.0-4.0 Liter Coffee Brewers Field configurable Domestic								
Electrical and Output Specifications Brewer has factory installed cord and plug & terminal block 50Hz or 60Hz								
SKH	CIVIL Voltage Heater Wines KW Electrical Dhase Ann Draw Brew-Volume							
SKU	SKU Voltage Configuration Wires KW Connection Phase Amp Draw per hour							
E2241US-1X117-PA011	120	1 X 1.7 kW	2+G	1.7	NEMA 15-5P	1	14.7	3.9 gal/14.8 L
Domestic-Dual Voltage 208-240 2 X 1.7 kW 3+G 2.6-3.4 Terminal Block 1 12.8-14.7 5.8 gal/22 L								
Electrical Specifications, Domestic Single brewer-single voltage 120 volt cord and plug single phase 50Hz or 60Hz								

CBS-2241Next Gen Single 3.0-4.0 Liter Coffee Brewers Domestic models Electrical and Output Specifications All brewers have factory installed cord and plug 50Hz or 60Hz									
Electrical and O	utput Spe	cifications A	dl brewer	s have to	actory installed c	ord and	plug 50Hz	or 60Hz	
SKU	Voltage	Heater	Wires	KW	Electrical	Phase	Amp Draw	Brew-Volume	
SKU	Configuration Wires NW Connection					riiase	Amp Diaw	per hour	
E2241US-1A115-PA011	120	1 X 1.5 kW	2+G	1.5	NEMA 15-5P	1	13.0	4.0 gal/15.1 L	
E2241US-1A115-PA011	120	1 X 2.3 kW	2+G	2.3	NEMA 5-20P	1	19.7	5.8 gal/22 L	
E2241US-1A123-PM112	120	1 X 2.3 kW	2+G	2.3	NEMA 5-20P	1	19.7	5.8 gal/22 L	

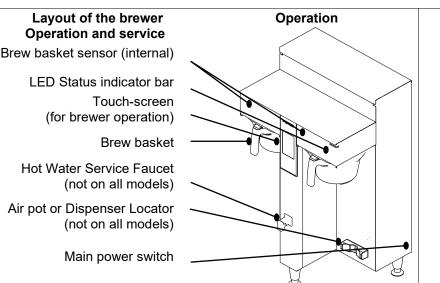
CBS-2241Next Gen Single 3.0-4.0 Liter Coffee Brewers Field configurable NOM (Mexico) In Spanish Electrical and Output Specifications Brewer has factory installed cord and plug & terminal block 50Hz or 60Hz								
SKU Voltage Heater Configuration Wires KW Electrical Connection Phase Amp Draw Per hour								
E2241NM-1X123-PA012	120	1 X 2.3 kW	2+G	2.3	NEMA 5-20P	1	19.7	6.1 gal/23.2 L
Dual Voltage 208-240 2 X 2.3 kW 3+G 4.6 Terminal Block 1 17.1-19.7 7.6 gal/30 L								
NM in SKU suffix (above) denotes equipment with NOM certification, Spanish labeling for Mexico and Spanish language user guide								

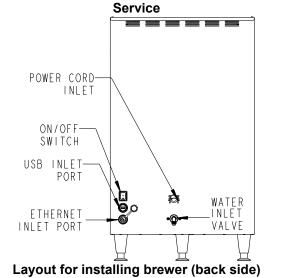
CBS-2	CBS-2241Next Gen Single 3.0-4.0 Liter Coffee Brewers International models								
Electrical and Output Specifications All brewers have terminal block electrical utility connection 50Hz or 60Hz									
SKU	Voltage	Heater	Wires	KW	Electrical	Phase	Amp Draw	Brew-Volume	
31(0	Voltage	Configuration	VVIICS	1744	Connection	i ilase	Amp blaw	per hour	
E2241NM-1B140-PA010	208-240	1 X 4.0 kW	2+G	2.8-4.0	Terminal Block	1	14.9-17.2	10.0 gal/37.9 L	
NM in SKU suffix (above) der	notes equip	ment with NOM c	ertification	ı, Spanish	labeling for Mexic	co and S _l	oanish langua	ge user guide	
E2241IN-1B140-PA010	208-240	1 X 4.0 kW	2+G	2.8-4.0	Terminal Block	1	14.9-17.2	10.0 gal/37.9 L	
E2241IN-1B123-PA010	200-240	1 X 2.3 kW	2+G	1.6-2.3	Terminal Block	1	8.5-10.1	5.8 gal/22 L	
E2241IN-1B130-PA010	200-240	1 X 3.0 kW	2+G	2.1-3.0	Terminal Block	1	10.9-13.0	7.7 gal/29.1 L	

CBS-2242Next Gen Dual 3.0-4.0 Liter Coffee Brewers Domestic models								
Electrical and Output Specifications All brewers have terminal block electrical utility connection 50Hz or 60Hz								
SKU	Voltage	Heater Configuration	Wires	KW	Electrical	Phase		Brew-Volume
SKU	voltage	rvv	Connection	rnase	Amp Draw	per hour		
E2242US-1B223-PA010	208-240	2 X 2.3 kW	2+G	3.5-4.6	Terminal Block	1	17.1-19.7	11.0 gal/42.0 L
E2242US-1B230-PA010	208-240	2 X 3.0 kW	2+G	4.5-6.0	Terminal Block	1	22.2-25.5	14.3 gal/54 L
E2242US-1B230-MA110	208-240	2 X 3.0 kW	2+G	4.5-6.0	Terminal Block	1	22.2-25.5	14.3 gal/54 L

CBS-2242Next Gen Dual 3.0-4.0 Liter Coffee Brewers International models Electrical and Output Specifications All brewers have terminal block electrical utility connection 50Hz or 60Hz										
SKU Voltage Heater Configuration Wires KW Electrical Connection Phase Amp Draw Per hour										
E2242IN-1B223-PA010	200-240	2 X 2.3 kW	2+G	3.2-4.6	Terminal Block	1	16.5-19.7	12.2 gal/46.3L		
E2242IN-1B230-PA010	E2242IN-1B230-PA010 200-240 2 X 3.0 kW 2+G 4.2-6.0 Terminal Block 1 21.3-25.5 15.8 gal/60 L									
E2242NM-1B230-PA010 208-240 2 X 3.0 kW 2+G 4.5-6.0 Terminal Block 1 22.2-25.5 15.8 gal/60 L										
IM in SKU suffix (above) denotes equipment with NOM certification. Spanish labeling for Mexico and Spanish language user quide										

Customer options	BREW BASKET TYPE	HOT WATER FAUCET	BYPASS	Brew Basket Lock
e.g. E2241US-1X117-P¹A²0³1⁴1	(P, M)	(M, A OR N)	(1 OR 0)	(1 OR 0)
Factory standard features	¹ P=Plastic (most versions)	² A=Automatic electronic	30=None	41=With
Add all the following numbers	M=Gourmet Metal	M=Standard manual	1=With	0=None
after all SKU numbers		N=No hot water faucet		





Batch 1

1.5 gal

6:00

6:00

STOP

12:35pm 04.14.2020 •♣ 🕏 🗂 0 87°C/93°C

Batch 5

Batch 6

Batch 7

HOT WATER

⊟ 1.5 gal ⊗6:00

ե 1.5 gal ⊗ 6:00

⊕6:00

Fast Start Brewing

Starting The Brew

HOT-WATER¶

- 1. Turn the power switch "ON". (Twin Shown)
- 2. Prepare a brew basket with the correct size filter and appropriate amount of coffee. (4-8 ounces or 113-227 grams for 1 gal/3.8 liters)
- 3. Slide the brew basket completely into the rails.
- 4. Place a clean, empty, preheated dispenser under the brew basket.
- 5. Select a batch & touch the corresponding BREW icon (Batch #1 selected in illustration), then press "START"
- 6. -STOP icon will illuminate,
 - -Countdown time will display, with proportional graphic circle icon -LED indicator will pulse.
 - -All other BREW icons for that brew head will be hidden.
--Opposite side BREW icons on dual brewer remain active
- 7. When the brew cycle is finished,
- -Spray icon will extinguish and the BREW circular icon will remain. This indicates that coffee may still be dripping from the brew basket For safety- do not remove brew basket until drip-out is complete.

s complete.

Brewing in process
Batch one selected

Twin Brewer ready to brew.

Batch one-top left brew position selected



To enter programming

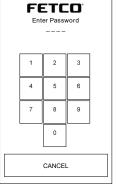
Turn the power switch "OFF", then "ON": Bootup will begin

Touch the cen of the screen (shown on right→)



2. (shown right→) Operator password is 1,2,3,4: Note: For general use

Service password is 9,8,7,6 Note: Do not distribute this number



3.
Make changes and adjustments from the Programming

Menu screen

(Shown right→)

See progamming menu layout next page MAIN

Brew Recipes Hot Water Portions

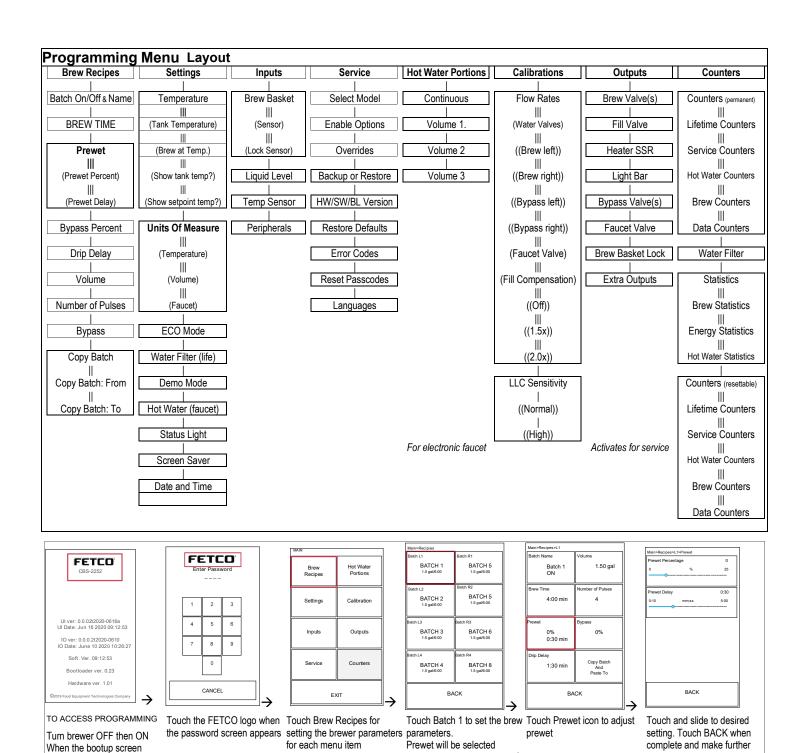
Settings Calibration

Inputs Outputs

Service Counters

Bootup screen Password Screen

Programming access



Brew Recipes	Program Items	Factory set Default	Programming Range	Notes
Batch Name	Batch On/Off	All "ON"	On/Off	Only top batch(s) are always enabled
Batch Name	Customize Name	Batch (1-4 L) (5-8 R)	Complete keypad	Scroll and tap three virtual keypads
Brew Time	Time of brew	4:00 minutes	2:00-12:00 mins/secs	Add to prewetting and drip delay times
Prewet	Prewet percentage	0	0-25% brew volume	Initial wetting to stabilize very fresh coffee
Prewet	Prewet delay time	1:00 sec.	0:10 sec to 5:00 min	Pause after coffee bed is prewetted
Drip Delay	Pause after brew	2:00 min:sec.	00.30 to 6:00	Time that brew basket remains locked during drip-out. This is a safety feature.
Brew Volume	Total volume	1 gallon/3.8 liters	0.5-1.25 gal./0.95-4.75 liters	Factory set for 1 gallon dispenser
Number of Pulses	Start/stop in brew	8	4-20	Algorithm evenly divides brew time cycle
Bypass Percentage	Diverts brew water	0	0-40% of brew volume	Affects flavor, strength and mouth-feel
Copy & Paste Menu	Current recipe		Paste into all other recipes	Will paste selected into the other

→ Batch 1 will be selected

appears touch the FETCO

logo →

→ The chart below describes the adjustments or press BACK

icons shown on this screen→ and SAVE & EXIT.

Settings	Program Items	Factory set Default	Programming Range	Notes
Temperature	Tank Temperature	200°F/92°C	170-208°F/77-98°C	Hot water tank, brewing water temp.
Temperature	Brew at Temperature*	ON	OFF/ON	See note below
Temperature	Show Tank Temp.	ON	OFF/ON	Shows 1st at top right screen
Temperature	Show Setpoint Temp.	ON	OFF/ON	Shows 2 nd at top right screen
Units of Measure	Temperature Volume Hot water Faucet	F° - Fahrenheit Gal-Gallons ml - Milliliters	NO or YES	Main>Settings>UNITS Temperature Volume Faucet Main>Settings>UNITS C C MI
ECO Mode	ON/OFF Eco idle time (to start) Eco Tank temperature	OFF (default) (if activated) 1 hour 169°F	Turn on or off 1-6 hours 158°F to 176°F	Screen will display Eco Mode when activated-will take time to reheat to set brew water temperature
Water Filter	Water filer installed Rated filtering volume	NO 2625 gallons	NO or YES 250 gallons to 3950 gallons	
Demo Mode	Brewer ON Disables valves & heaters	OFF	OFF/ON	For training and user familiarization
Hot Water	Digital H. Wtr Faucet	Auto	ON/OFF/Automatic	Automatic activates portion control
Status Light	READY LED color	White	White/Blue/Green	Color when brewer is ready to brew
Screen Saver	Covers recipe screen	OFF	ON/OFF & Timeout setting	"OFF" leaves recipe screen
Date and Time	Set unit date and time	12 hour format	12/24 hour format & date	Store in real time clock

NOTES: Brew at Temperature*

Brew At Temp: "ON" (Default: factory programmed into brewer)
"BREW START" will not be accessible until tank temperature is at set point.
"BREW START" becomes accessible when hot water tank is at the selected temperature.

Menu screen will be dimmed if tank temperature is low

USER SELECTABLE Brew At Temp: "OFF" (Not recommended)

Allows brewing at any temperature above 170°F/77°C.

May not apply for two sided brewer if one side is in brew cycle

Altitude Correction Chart

CI	Chart to correct for altitude for boiling point in 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	

Brew at Temperature

Ideal brew water temperature is 200°F/93°C. After brewing, brewers can take time to recover the hot water tank temperature and signal READY to brew. This is called recovery time". The lag in recovery time is caused by rapid brewing cycles in a rush, low power heating elements, low incoming electrical voltage, water supply temperature, even the barometric pressure.

Operators will adjust the "Brew At" temperature to allow the brewing at lower temperatures. This will allow a slightly faster recovery time and give a small increase in brew cycles per hour.

Reduced brew temperature will always compromise the quality of the finished brew and lower the temperature of the customers coffee.



← Faster brew cycle with reduced temperature Compromised Extraction

Correct brew water temperature → Proper Extraction

Inputs	Program Items	Factory set Default	Programming Range	Notes
Brew Basket	Sensor	Displays activity	Brew basket in place?	LEFT o RIGHT o (green=on;red=off)
Brew Basket	Lock Sensor	Displays activity	Brew basket locked?	LEFT o RIGHT o (green=on;red=off)
Liquid Level	LOW	Not used	Not used	Not used
Liquid Level	HIGH	Hot water tank fill	Filled/Not Filled & signal	Green=Filled/Red=Not Filled
Temp. Sensors	Sensor 1	Hot water tank temp.	Actual temperature & signal	
Temp. Sensors	Sensor 2	Not used	Not used	Not used
Peripherals	USB1	Digital input/output	Displays activity	(green=active;red=off)
Peripherals	USB2	Not used	Not used	Not used
Peripherals	RS-232	Digital input/output	Displays activity	(green=active;red=off)

Service	Program Items	Factory set Default	Programming Range	Notes
Select Model	Set brewer model	CBS-2242	MODEL (single side) 1 (dual side) 2 223x	To select: touch icon for brewer, touch "BACK" and got to EXIT & SAVE
Enable Options			Options Electric HW faucet OFF ON Bypass Valve(s) OFF ON Brew Basket Lock(s) OFF ON Expansion Board OFF	
Overrides	Brew Basket Sensor Brew Basket Lock Brew Basket Lock Sensor HW Press and hold		Override Safety Features Left Right Brew Basket Sensor OFFON OFFON Br. Basket Lock Sensor OFFON OFFON HW Press and hold OFFON OFFON	Overriding deactivates onboard safety systems. This is not recommended for normal operation. A warning/reminder will display in the start scren
Backup or Restore	Backup current configuration	Will save all programmed settings	Requires USB thumb drive	Insert USB thumb drive and touch "BACKUP" & follow instructions
Backup or Restore	Installs saved settings	USB thumb drive with one file-	One file, must be titled: backup.txt	Insert USB thumb drive and touch "RESTORE" & follow instructions
HW/SW/BL Version			Software UI 0.2.221011a 10 0.3.20221119a Bootloader UI Bootloader IO Compilation Time UI Oct 11 2022 13:28:09 10 Nov 29 2022 15:12: 20 Hardware Main Board rev UB Osadra rev	
Restore Defaults	Return factory sets		Will overwrite all settings	Touch and hold icon 5 seconds
Error Codes			Error Log Error Code → Code & definition Date/time stamp Export Log To USB Follow prompts to export Error Statistics Error code frequency Error Statistics Follow prompts to delete	
Reset Passcodes	Overrides default		Operator Code Follow prompts to change Service Code Follow prompts to change	
Languages	Reserved for future use			

	Error Codes (From SERVICE – Page7)						
	DO NOT CLEAR ERROR CODES UNTIL ERROR IS IDENTIFIED AND CORRECTED						
→Con	tact factory or sp	ecialized personnel for e					
Code	Description		Possible Cause	Corrective Action			
001	Software error-corrupted softw	error on start up or are	Improper start-up or shutdown	Restart, if still fault: reload software			
002	Internal flash co	orrupted emory malfunction	Error found in cyclic redundancy check CRC	Restart, if still fault: reload software If not corrected: replace board			
050		emperature probe	Probe failure.	Replace probe.			
051	Open temperate	ure probe.	Bad probe connection, or probe failure.	Check all connections. Replace probe if necessary.			
100	Initial Fill Error. Initial fill time to expected after		Water supply flow rate is too low, fill valve is stuck, water line kinked or closed.	Reboot machine. If persists-investigate cause of low flow rate. (Clogged water filter, kinked line, stuck fill valve)			
101	Error on refill	ill within expected time.	Water supply flow rate to hot water tank is too low, or fill valve stuck or damaged (SEE PAGE 13)	Check water supply line. Flow should be 20-75 psig, (138-517kPa) >1gal/3.8L/min Investigate cause of low flow rate. If the flow rate is in range-replace fill valve			
200	Heating flatline-	Tank is boiling	Heater is on, temperature is not rising/dropping	High elevation correction. Bad heaters or temperature probe or position			
201	If the hot water tank heaters are turned on during a heating cycle and tank temperature is not increasing according to software logic and the tank temperature is below setpoint		1) Failure of SSR, high limit, temperature probe, or heating element. 2) Water being removed by hot water faucet during heating (control displays	1)Test and check SSRs, high limit devices temperature probe. Check heating elements with current clamp, replace if necessary. 2)Advise staff to refrain from taking large amounts of water from hot water tank,			
202	Heater Shorted	or Stuck SSR	"heating") Heater is off and heating SSR is stuck "ON"	especially during "heating". Check ohms on heater (15-60Ω). SSR may be stuck in ON mode-replace SSR.			
255	Keyboard [HID] error (<u>H</u> uman <u>I</u> nterface <u>D</u> evice)		Usually from longer than 10 seconds' contact. Or faulty reassembly after service	Restart, if still fault: reload software. If mechanical: replace module			
NO BSKT Insert Brew Basket		Brew basket must be in place This is a SAFETY FEATURE	Insert brew basket into brewer rails to enable brewer				

Hot Water Portions	Program Items	Factory set Default	Programming Range	Notes
This setting is only for brew	ers with an el	ectronic hot water fau	cet. In the <u>SETTINGS</u> menu, th	ne "Automatic" feature must be enabled
Hot Water Portions	Enabled	"ON"		OFF/ON
Hot Water Portions	Name	Continuous	Rename on keypad	Scroll and tap three virtual keypads
	Safety Timeout	0:25	0:10 min 0:60 O	Sets limit for touch and dispense
Hot Water Portions	Volume 1	6 oz.		
	Enabled	ON	Turns "ON" or "OFF"	OFF/ON
	Name	Volume 1	Rename on keypad	Scroll and tap three virtual keypads
	Volume dispensed	6 oz	Volume 6 2 oz 30O	Sets limit for #1 touch and dispense
Hot Water Portions	Volume 2	8 oz		
	Enabled	ON	Turns "ON" or "OFF"	OFF/ON
	Name	Volume 2	Rename on keypad	Scroll and tap three virtual keypads
	Volume dispensed	8 oz	Volume 8 2 oz 30O	Sets limit for #2 touch and dispense
Hot Water Portions	Volume 3	8 oz		
	Enabled	ON	Turns "ON" or "OFF"	OFF/ON
	Name	Volume 3	Rename on keypad	Scroll and tap three virtual keypads
	Volume dispensed	12 oz	Volume 12 2 oz 30 Scroll and go to EXIT&SAVE	Sets limit for #3 touch and dispense

Calibration	Program Items	Factory set Default	Programming Range	Notes
Flow Rates Water Valves	Brew left	0.50gal/min	Brew Left 0.50 (gal) 0.40 gal/min 0.58	Use to attenuate and compensate for variations in brew valve output
Flow Rates Water Valves	Brew right	0.50gal/min	Brew Right 0.50 (gal) 0.40 gal/min 0.58 0	Use to attenuate and compensate for variations in brew valve output
Flow Rates Water Valves	Bypass left	0.36gal/min	Bypass left 0.36 (gal) 0.29 gal/min 0.43	Use to attenuate and compensate for variations in bypass valve output
Flow Rates Water Valves	Bypass right	0.36gal/min	Bypass right 0.36 (gal) 0.29 gal/min 0.43	Use to attenuate and compensate for variations in bypass valve output
Flow Rates Faucet Valve	For automatic hot water faucet	1500 ml/min	Faucet 1500 500 ml/min 5000 	To compensate variations in timed dispense from automatic hot water faucet
Fill Compensation	Slow Flow Compensation	OFF	o Off o 1.5x o 2.5x	Use for FloJet bottled water supply or for reduced water supply from mains.
Display			Display % Contrast 70 10 100 Brightness % 70 20 100	
LLC		NORMAL	o Normal o High	Liquid level control sensitivity. Normal for most water. High is for reverse osmosis water or very pure water.

How to calibrate the flow rate

Set the flow rates of the brewer valves to adjust for over or under potting.

Built-in algorithms in brewer controller software corrects brew parameter to customer preferences or to trim variations in flow control components. The control software uses the new flow rate entered in the CALIBRATION screen to adjust and correct the amount of water delivered by the valve

Increasing the flow rate value DECREASES the volume of brew water dispensed Decreasing the flow rate value INCREASES the volume of brew water dispensed

Flow rate adjustment will control all batches made by the valve. All batches on the side of the valve will be adjusted, (left or right)

- -Obtain the <u>VOLUME DISPENSED</u> of water only, by brewing a batch without coffee or filter paper.
- -Obtain the PROGAMMED VALUE of the same brew. This is displayed on the home screen in the batch box
- -Obtain the CURRENT SETTING for the flow rate from the brewer. Do this by entering PROGRAMMING and

Tap to "CALIBRATION" then, tap "Flow Rates" and then "Water Valves". The valves flow rate is in the top right corner.

Using the values obtained above to obtain the new flow rate setting to correct the volume dispensed: Divide the <u>volume dispensed</u> by the <u>programmed volume</u> and then multiply by the <u>current setting</u>

 $\frac{\text{VOLUME DISPENSED}}{\text{PROGRAMMED VALUE}} \times \text{CURRENT SETTING} = \text{NEW FLOW RATE SETTING}$

- -Enter programming mode, tap to "CALIBRATION"
- -Tap back to "Flow Rates" and then to "Water Valves"
- -Enter the new flow rate into the calibration slider for the valve tested

Note: values for brewers set in gallons are in decimal format. Place all quantities in ounces and divide by 128 (*One gallon =128 ounces*) to obtain decimal format \rightarrow 3 quarts delivered=96oz, 96oz÷128=**0.75 gal**.

Example below shows shortpotting of 16oz over 0.08 gal. batch corrected by recalibration using the formula above

Obtain Volume Dispensed	tables stocked	APIC MITANI	Obtain Programmed Value	Obtain Current Setting	Use the formula above	Enter the New Flow Rate
Example:	Betch 1 # 1.5 gal 690.00	Batch 5 to 1.5 gal (9 e.co)	The Programmed value	The valves flow rate is in the		
A CBS-2242 delivered 3gts or 6oz	@6:30°	9 (3)	for batch 2 -left side of	top right corner	0.75	Brew Left 0.47 (gal)
over the 0.8 gallon (102oz) setting			the CBS-2242 is on the	Brew Left 0.50 (gal)	$\frac{0.75}{0.8} \times 0.50 = 0.47$	0.40 gal/min 0.58
for Batch 2-Left Side	₩10 gal	± 1.0 gal @1500	home screen in the	0.40 gal/min 0.58	0.8	0
(96oz÷128=0.75)	@s:xx	99900	batch box.			Enter new cetting on the clider
The value is 0.75					The new flow rate is	Enter new setting on the slider
			The value is 0.8 gallon	The value is 0.50	0.47	as shown and EXIT to save.
	HOT	WATER	The value is 0.6 gallon		0.47	Retesting recommended
By entering the new flow rate number into the brewer, the software automatically corrects the volume discrepancy						

Outputs	Program Items	Factory set Default	Program	ming Range	Notes
These settings are u	sed to activate indivi	dual controls for testing	yerifications	and servicing op	erations
Brew Valve(s)	Momentarily operate Left or Right Brew valves		Brew \(\bigcup \)	t Right	Have dispenser under spray head! Touch to activate flow
Fill Valve	Momentarily operate fill valve		Fill	6	Have dispenser under spray heads! Touch to activate flow
Heater SSR	Turns on all heaters		Heater 3 sec max	6	Activates SSRs to turn on heaters
Light Bar	Momentarily operate light bar(s)		Status Light	6	
Bypass Valve(s)	Momentarily operates Left or Right Bypass valves		Let Bypass	it Right	Have dispenser under bypass port! Touch to activate flow
Faucet Valve	Momentarily operate faucet valve	For brewers with automatic hot water faucet	Faucet	b	Have dispenser under faucet! Touch to activate flow
Brew Basket Lock	Operates brew basket locks, toggling them on and off		Left BBL Unlock Left BBL Unlock Left BBL Sensor	Right	Will toggle brew basket locks to be engaged then OFF.
Extra Outputs	For future use	Not used	Not used		Not used

Counters	Program Items	Factory set Default	Programming Range	Notes
This setting shows us				
Lifetime Counters These counters are permanent and cannot be deleted. The quantities	Service Counters		Main>Counters>Lifetime>Service Lifetime Counters (units in hours and liters) Unit Uptime	
shown are a permanent record for the machine,	Hot Water Counters		Main>Counters>Lifetime>Faucet Lifetime Counters (units in liters) Volume Activation	
	Brew Counters		Lifetime Counters (units in liters) Recipe Number Volume Activation 1 0 0 2 0 0 3 0 0 4 0 0 5 0 0 6 0 0 7 0 0 8 0 0	
	Data Counters	Reserved for future		
Water Filter	Water Filer Life Time		Main>Counters-Reset Filter Water Filter Life Time Filter Life Time 0% of 10,000 Press and hold button for 5 seconds To Reset Filter	
Statistics	Brew Statistics	Reserved for future		
	Energy Statistics Hot Water Statistics	Reserved for future Reserved for future	Main Country 2 1 C	
Resettable Counters	Service Counters	See screen above	Main>Counters>Reset>Clear	
	Hot Water Counters	See screen above	Clear Resettable Counters	
These are the same screens as above in "lifetime counters". These can be reset	Brew Counters Service Counters	See screen above See screen above	Press and hold button for 5 seconds To Clear Error Log	

Brewer Setup

NOTE-Assemble legs immediately after unpacking the brewer and before connection to utilities

1) Attach legs



4" flange foot legs -

Part number 1073.00007.00 3 required for CBS-2242

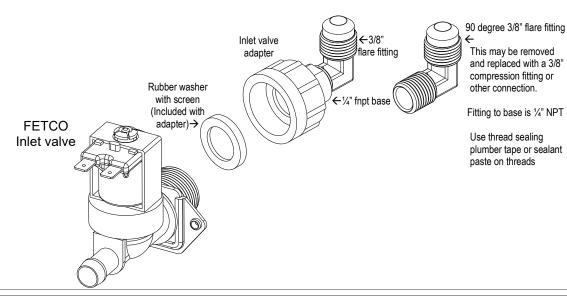
4 required for CBS-2241

Legs are sent from factory inside brew basket. Attach legs before installing

Brewer Setup

2) Attach water inlet adapter

Place rubber washer with screen in adapter. Hand tighten only-and 1/4 turn with wrench



Install the adapter on inlet valve first before attaching water line. Adapter is shipped in the brew basket The valve threads are 3/4" BSP MALE THREAD and are not 3/4 garden hose fittings.

Use of any other connector to valve will damage the valve

DO NOT use US dishwasher water adapter or US washing machine adapter for this connection.

The threads on the USA adapters are unusable for the valve

TO PREVENT DAMAGE AND INSURE PROPER EQUIPMENT OPERATION

The inlet valve thread is 3/4 INCH BSP (British Standard Pipe).

This valve is not a standard USA washing machine or dishwasher thread (3/4" GHT)

- -Use only the plumbing adaptor kit included with this equipment. Use the gasket included in adaptor kit
- -Plumber's tape is not recommended for the adapter to valve connection
- -Hand tighten adapter on valve with gasket, then very lightly wrench 1/4 turn to set
- -DO NOT SUBSTITUTE FITTINGS FOR CONNECTING TO WATER SUPPLY

Damage to inlet valve from improper installation will void the warranty

NOTE: DO NOT TANK PLUMB DRAIN. DRAIN IS FOR SERVICE AND MAINTENANCE.

(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 coffee 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 on pages 29-31 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).
- 3. 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 1½ gpm/(5.7lpm) per minute and the water pressure is between 20-75 psig (138-517kPa) before making any connections
- 8. IMPORTANT: Only use the supplied factory fitting to attach water supply line to brewer (shipped in brew basket)
- 9. The suppled fitting is a 3/8" flare/compression fitting for 1/4" supply line. Other adaptors may be substituted.
- 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 CBS-2241 hot water tank when full holds 3.3 gallons; the CBS-2242 6 gallons.
- 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.

Brewer	Hot Water Tank Capacity	OPEN Leave open for use	
CBS-2241 Single	4.5 gallon 17 L	PINCH SHUT	
CBS-2242 Twin	8.5 gallon 32 L	To drain tank & service brewer	AI!

Operator Training

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

Pay particular attention to the following areas:

- 1. Always pre-heat the dispensers before the first use of each day by filling them half way with hot water, and letting them stand for at least 5 minutes.
- 2. Do not remove the brew basket from a coffee brewer until it has stopped dripping.
- 3. Make sure the dispenser is empty before brewing into it.
- 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/60 cc 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:

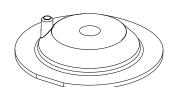
- 1. Dispose of grounds and rinse brew basket.-
- Never strike a brew basket or hit it against a hard surface.
 This will damage the brew cone, and may damage the brew basket support rails
- 3. Rinse dispensers before reuse.

Every Day:

- 1. Wash brew basket with hot sudsy water.
- 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. Use only a soft cloth and hot suds on the outside to avoid scratches. Never use abrasives that will scratch surface.

Weekly

- 1. Use a commercial coffee 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.
- 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.

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 coffee brewer. This appliance must be installed in locations where it can be overseen by trained personnel.
- 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



WARNING To reduce risk of electric shock or fire. FETCO® Hot Beverage Equipment is for commercial use only. Do not remove or open cover. No user serviceable parts inside Refer installation and service to qualified personnel. Caution, disconnect from power supply before servicing. GROUND: National Electrical Code requires separate grounding wire Use dedicated circuit with capacity rated by local code or National Electrical Code for the current draw of this equipment. Check serial number plate on right side for power requirements. Locate unit away from source of heat. Do not install or use near combustibles THIS APPLIANCE IS ENERGIZED WHENEVER IT IS CONNECTED TO A POWER SOURCE FAILURE TO COMPLY RISKS EQUIPMENT DAMAGE, PROPERTY DAMAGE, FIRE, OR SHOCK HAZARD This equipment must be installed with a backflow protection Read the user guide before installing and operating this unit.

Labels and warnings for hot beverage equipment

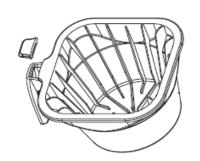
Label for BACK PANEL of equipment (1046.00035.00)

Brew Baskets

Plastic Brew Basket For CBS-2241 & CBS-2242

Part Number B014218BN2BK - Complete Plastic Brew Basket 13" X 5", .218 DIA HOLE

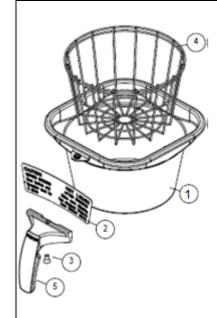
Brew basket handle plug for polymeric brew baskets is available in optional colors.



Part Number	PLUG INSERT COLOR
1023.00195.00	BROWN PLUG, BB HANDLE
1023.00194.00	BLACK PLUG, BB HANDLE
1023.00190.00	RED PLUG, BB HANDLE
1023.00191.00	GREEN PLUG, BB HANDLE
1023.00192.00	ORANGE PLUG, BB HANDLE
1023.00180.00	BLUE PLUG, BB HANDLE

Stainless Steel Brew Basket For CBS-2241 & CBS-2242

Part Number B003218B1 - Complete Stainless Steel Brew Basket 13" X 5", .218 DIA HOLE



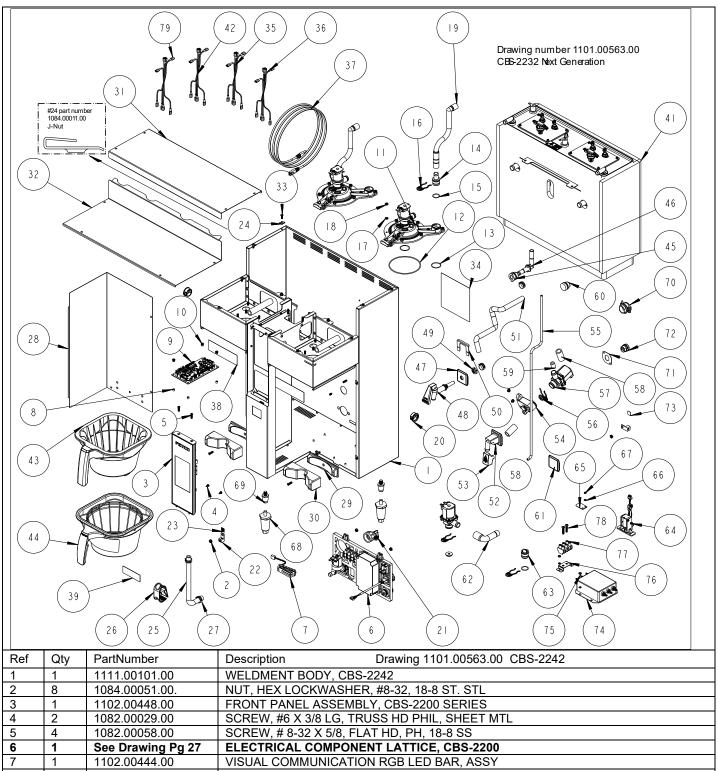
Ref#	Qty	Part Number	Description
1	1	1112.00128.00	BB WLDMNT 13" X 5", .218 DIA HOLE
2	1	1046.00025.00	BREW BASKET WARNING LABEL
3	1	1082.00040.00	SCREW, 1/4-20 X .5, FL HD, PH., W/NYLN
4	1	1009.00006.00	WIRE BASKET
5	1	1102.00064.00	HANDLE W/MAGNET ASY, BLACK
Optional colored handle		1102.00065.00	HANDLE W/MAGNET ASY, RED
Optional colored handle		1102.00066.00	HANDLE W/MAGNET ASY, GREEN
Optional colored handle		1102.00067.00	HANDLE W/MAGNET ASY, ORANGE

Specialty Brew Baskets for Iced Tea/Tea and Specialty Coffee Brewing.

These brew baskets have reduced orifice sizes and may require PROGRAMMING changes to increase brewing time and pulses to enhance extraction and prevent basket overflow during steeping. SEE Page 5- <u>Brew Recipes</u>

Stainless Steel					
Part Number	Orifice Size	Handle Color	Filter Paper Size		
B003218B1 (from above)	0.218-Sandard	Black	13" X 5" or FETCO# F002		
B003158B1	0.158	Black	13" X 5" or FETCO# F002		
B003110G1	0.110	Green	13" X 5" or FETCO# F002		
B003110B1	0.110	Black	13" X 5" or FETCO# F002		
B003079B1	0.079	Black	13" X 5" or FETCO# F002		
Plastic					
Part Number	Orifice Size	Plug Color	Filter Paper Size		
B014218BN2BK (from above)	0.218-Sandard	Black	13" X 5" or FETCO# F002		
B014140G2BK	0.140	Green	13" X 5" or FETCO# F002		

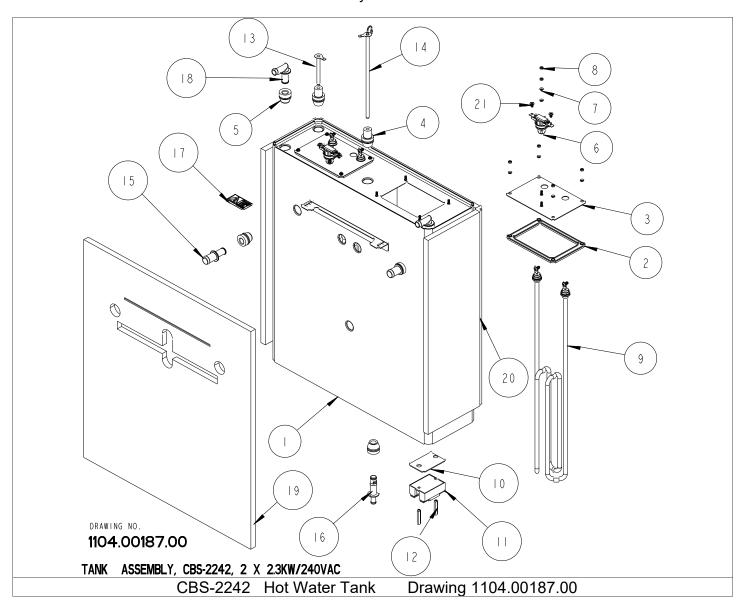
Parts diagrams



1	1	1111.00101.00	WELDMENT BODY, CBS-2242		
2	8	1084.00051.00.	NUT, HEX LOCKWASHER, #8-32, 18-8 ST. STL		
3	1	1102.00448.00	FRONT PANEL ASSEMBLY, CBS-2200 SERIES		
4	2	1082.00029.00	SCREW, #6 X 3/8 LG, TRUSS HD PHIL, SHEET MTL		
5	4	1082.00058.00	SCREW, # 8-32 X 5/8, FLAT HD, PH, 18-8 SS		
6	1	See Drawing Pg 27	ELECTRICAL COMPONENT LATTICE, CBS-2200		
7	1	1102.00444.00	VISUAL COMMUNICATION RGB LED BAR, ASSY		
8	4	1081.00006.00	SPACER, 6MM OD x 3.2MM ID x 5MM LG, Z/P		
9	1	1051.00046.00	CBS-2200 SERIES, I/O BOARD, 24V		
10	4	1029.00006.00	NUT, FINGER KNURLED, #4-40		
11	2	See Drawing Pg 26	SPRAYHEAD ASSY,CBS-30/40'S, QUICK CONNECT		
12	2	1024.00063.00	O-RING, 3 15/16" x 3/32" CS, DASH # 154, BUNA-N, DURO-A50		
13	4	1024.00107.00	O-RING, 1 3/16" OD X 1 1/16" ID X 1/16" TH, BYPASS SEAL		
14	2	1023.00343.00	VENT INSERT, QUICK CONNECT		
15	3	1024.00106.00	O-RING, 13/16"OD X 11/16"ID X 1/16" TH, FOR QUICK CONNECT		
16	5	1023.00342.00	QUICK CONNECT CLIP		
17	18	1083.00010.00	WASHER, #12 SCREW W/NEOPRENE-BONDED SEAL		
	Parts list continues next page				

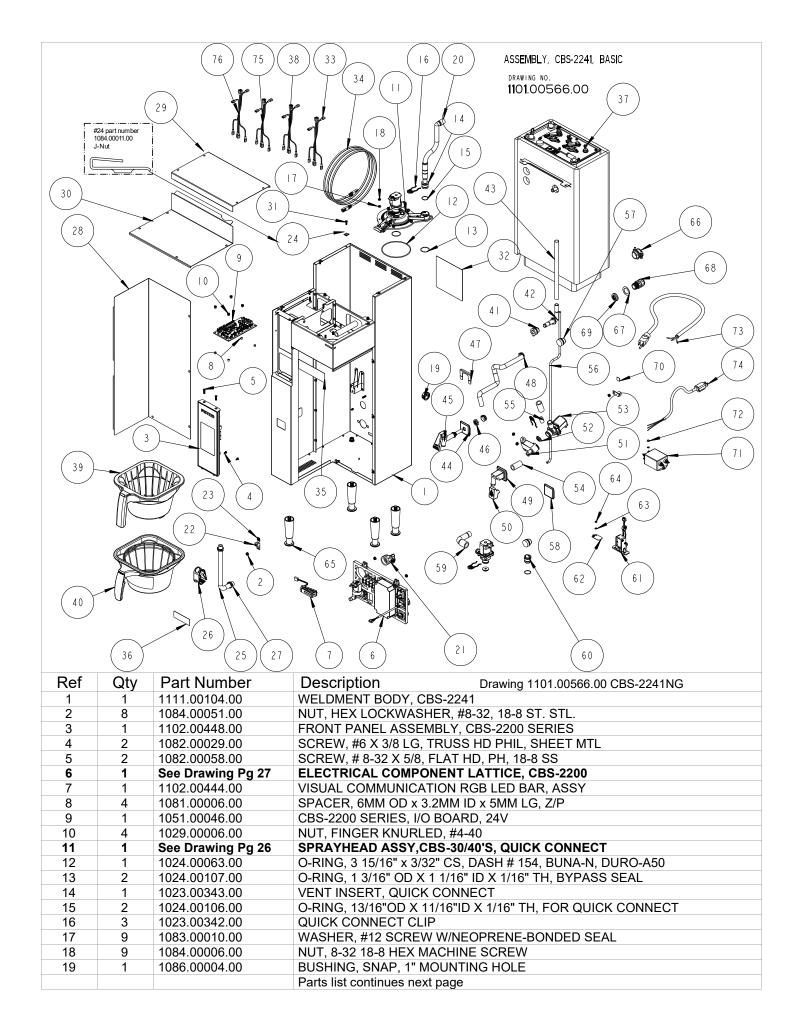
Ref	Qty	PartNumber	Description Drawing 1101.00563.00 CBS-2242NGContinued from page 16
18	18	1084.00006.00	NUT, 8-32 18-8 HEX MACHINE SCREW
19	2	1024.00098.00	VENT TUBE, CBS- EXTRACTOR SERIES
20	2	1086.00004.00	BUSHING, SNAP, 1" MOUNTING HOLE
21	1	1102.00243.00	ADAPTER ASSY, 3/4" BSP x 1/4" NPT x 3/8" TUBE
22	2	1065.00009.00	GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM
23	1	1044.00012.00	LABEL GROUND, CE
24	11	1084.00011.00	NUT, CLIP ON (J-NUT), #6-32, 22-20 GA., BLK-PH FINISH
25	1	1025.00058.00	TUBE, 9/16"OD X 5/16"ID X 25.00"LG
26	1	1086.00009.00	CLAMP, 3/4" MAX TUBE OD FLOW CONTROL
27	5	1086.00003.00	UNICLAMP, 15.9 HOSE OD CLAMP
28	1	1112.00530.00	WELDMENT, RIGHT COVER, CBS-2240
29	2	1023.00354.00	LOCATOR, DISPENSER, CBS-2240
30	2	1023.00355.00	LOCATOR, AIRPOT ADAPTER, CBS-2240
31	1	1001.00408.00	COVER TOP, CBS-2242/42
32	1	1001.00409.00	COVER, UPPER BASE, CBS-2242/42
33	11	1082.00017.00	SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG.
34	1	1046.00035.00	LABEL, WARNING "TO REDUCE RISK OF ELECTRIC SHOCK OR FIRE"
35	1	1402.00106.00	HARNESS, CBS-2240/50-NG, LOW AMP, UNIVERSAL
36	1	1402.00107.00	HARNESS ADDITION, CBS-2242/52-NG, LOW AMP, UNIVERSAL
37	1	1063.00042.00	ETHERNET CABLE, CAT-7, 5FT LENGTH
38	2	1046.00003.00	LABEL, CSD WARNING, 1.5" X 5.0"
39	1	1041.00032.00	BLACK EXTRACTOR NG LABEL, LASER ENGRAVED
40	2	1025.00142.00	TUBE, SILICONE, 3/4" OD X 1/2" ID X 3.75" LG, BREW
41	1	See Drawing Pg. 18	TANK ASSEMBLY, CBS-2242
42	1	1402.00037.10	HARNESS HIGH AMP, CBS-2242/42/51, UL
43	1	B014218BN2BK	BREW BASKET ASSY, BLACK, 13" X 5", 0.218" DIA HOLE, BROWN PLUG (Page 28)
44	1	B003218B1	BREW BASKET ASSY, 13" X 5", .218 DIA HOLE, BLACK (Page 28)
45	1	1024.00111.00	GROMMET, SILICONE, W/ POSITION TABS
46	1	1023.00362.00	FITTING VENT, ELBOW, .375" X .375", SELF POSITIONING
47	1	1023.00348.00	HOT WATER INSERT, MANUAL FAUCET
48	1	1071.00055.00	FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM
49	1	1084.00048.00	JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS
50	1	1003.00370.00	HOT WATER INSERT LOCK
51	1	1025.00120.00	TUBE, 9/16"OD X 5/16"ID X 13.00"LG
52	1	1023.00346.00	HOT WATER INSERT, AUTO FAUCET
53	1	1029.00041.00	COVER, AUTO HOT WATER FAUCET, SILICONE
54	1	1023.00347.00	VALVE MOUNT, HOT WATER DISPENSER
55	1	1025.00026.00	TUBE, 1/4"OD X 1/8"ID X 30"LG, VENT, HOT WATER VAPOR
56	2	1023.00369.00	ORIFICE INSERT, QUICK CONNECT, 3/16" HOLE
57	2	1057.00076.00	VALVE ASSEMBLY, COMPLETE, NG, DELTROL
58	2	1025.00138.00	TUBE, SILICONE, 3/4" OD X 1/2" ID X 1-1/2" LG, HOT WATER
59	1	1025.00135.00	TUBE, 1/2"OD X 1/4"ID X .75" LG, RESTRICTOR
60 61	1	1024.00051.00	GROMMET, SILICONE, BLANK
62	1	1023.00349.00	HOT WATER INSERT, NO FAUCET BYPASS L-TUBE, SILICONE, 2200 SINGLE SERIES
63	1	1029.00042.00 1023.00344.00	PLUG INSERT, QUICK CONNECT
64	1	1102.00344.00	ASSY, BREW BASKET LOCKER W/FEEDBACK
65	1	1003.00259.00	BRACKET, BREW BASKET LOCKER W/FEEDBACK
66	3	1003.00259.00	WASHER, #6 SCREW, INTL TOOTH LOCKWASHER
67	1	1083.00009.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
68			LEG, THERMOPLASTIC, 2.50"(63mm)
69	3	1073.00016.00 1073.00019.00	LEG, 1/16 THREAD x 1" LG., GRAY
70	1	1086.00008.00	CONNECTOR, CLAMP, NON-METALLIC CABLE, 3/4"
71	1	1003.00348.00	ADAPTER PLATE, CBS-1130-XV+, STRAIN RELIEF, CE
72	1	1086.00029.00	BUSHING, STRAIN RELIEF, .360"430" DIA CABLE
73	1	1044.00013.00	LABEL EQUIPOTENTIALITY, CE
74	1	1052.00027.00	EMI FILTER, THREE LINE 30A, 250/440VAC
75	2	1084.00012.00	NUT, HEX, #6-32 MACHINE SCREW
76	1	1112.00246.00	WELDMENT BRACKET TERMINAL BLOCK, 3 POLE
77	1	1052.00022.00	EUROSTRIP HE10 TERM. BLOCK, 3 POLE, 50AMP, 18-8 AWG
78	2	1082.00082.00	SCREW, PHILLIP HD., 8-32 THREAD
79	1	1402.00121.10	WIRE HARNESS ADDITION, HIGH AMP, EMI FILTER, 2-POLE, CE
			, , ,

Hot Water Tank Assembly CBS-2242 Next Generation



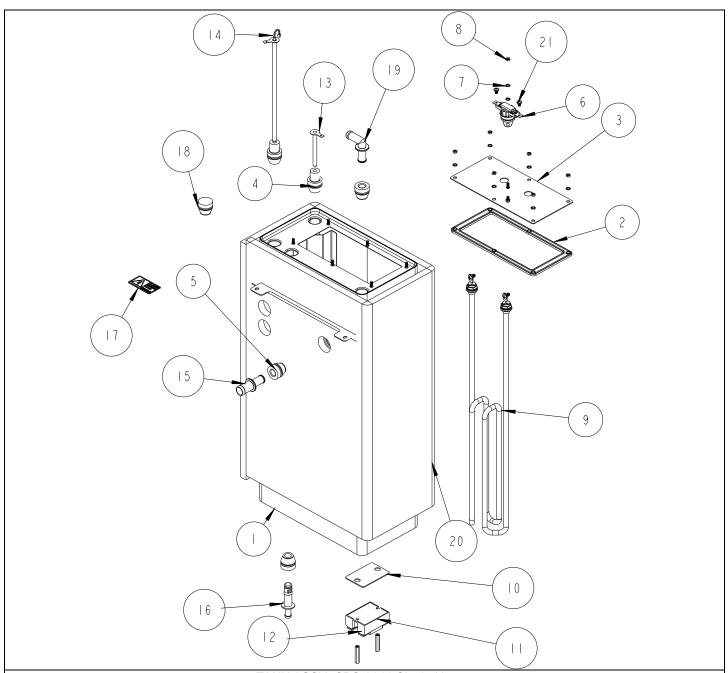
		CBS-2242	Hot Water Tank Parts List Drawing 1104.00187.00
Ref#	Qty	Part number	Description
1	1	1114.00171.00	WELDMENT TANK NG-2242, GROMMET DESIGN
2	2	1024.00115.00	TANK GASKET - NG HEATER PLATE, ONE ELEMENT
3	2	1114.00181.00	WELDMENT TANK HEATER BRACKET, NG-SMALL, ONE HEATER
4	2	1024.00053.00	LEVEL AND TEMP PROBE GROMMET
5	5	1024.00050.00	GROMMET, SILICONE, 11.4mm ID
6	2	1053.00052.00	THERMOSTAT, SINGLE SHOT, SCREW CONNECTIONS, 240V/25A
7	12	1083.00009.00	WASHER, #6 SCREW , INTL TOOTH LOCKWASHER
8	12	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
9	2	1107.00037.00	HEATER ASSEMBLY, IMMERSION 2300W/240VAC
9	2	1107.00005.00	HEATER ASSEMBLY, IMMERSION 3000W/240VAC
9	2	1107.00010.00	HEATER ASSEMBLY, IMMERSION 4000W/240VAC
10	1	1003.00140.00	ALUMINUM BRACKET FOR SSR
11	1	1052.00033.00	RELAY, SOLID STATE, 50A/480VAC, W/BUILD IN VARISTOR
12	2	1081.00042.00	STANDOFF, 1/4" HEX
13	1	1112.00019.00	PROBE WELDMENT, WATER LEVEL 2.600" LG
14	1	1102.00161.00	PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG
15	2	1023.00203.00	FITTING, STRAIGHT, GROMMET, .625"
16	1	1023.00166.00	FITTING, COLD WATER INLET, GROMMET DESIGN
17	1	1044.00004.00	LABEL, DANGER, HIGH VOLTAGE
18	2	1023.00212.00	FITTING, ELBOW, GROMMET, .500"
19	1	1022.00066.00	TANK INSULATION FRONT, CBS-2142
20	1	1022.00067.00	TANK INSULATION BACK, CBS-2142
21	4	1082.00136.00	BRASS SCREW, #8-32 X 1/4", PHILLIPS PAN HEAD

Table of authorities for CBS-2242NG replacement hot water tank module-tank is sold complete with insulation				
SKU Number. See page 3 for list	Description	Tank Part Number		
E2242US-1B223-PA010; E2242IN-1B223-PA010	TANK CBS-2242, 2 X 2.3KW/240VAC	1104.00187.00		
E2242US-1B230-MA110, E2242US-1B230-PA010, E2242IN-1B230-PA010 E2242NM-1B230-PA010	TANK CBS-2242, 2 X 3.0KW/240VAC	1104.00188.00		
	TANK CBS-2242, 2 X 4.0KW/240VAC	1104.00189.00		



Dof	Otr	Dauthlumbar	Description Drawing 1101.00566.00 CBS-2241NGContinued from page		
Ref	Qty	PartNumber	20		
20	1	1024.00098.00	VENT TUBE, CBS- EXTRACTOR SERIES		
21	1	1102.00243.00	ADAPTER ASSY, 3/4" BSP x 1/4" NPT x 3/8" TUBE		
22	2	1065.00009.00	GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM		
23	1	1044.00012.00	LABEL GROUND, CE		
24	12	1084.00011.00	NUT, CLIP ON (J-NUT), #6-32, 22-20 GA., BLK-PH FINISH		
25	1	1025.00058.00	TUBE, 9/16"OD X 5/16"ID X 25.00"LG		
26	1	1086.00009.00	CLAMP, 3/4" MAX TUBE OD FLOW CONTROL		
27	4	1086.00003.00	UNICLAMP, 15.9 HOSE OD CLAMP		
28	1	1112.00531.00	WELDMENT FRONT COVER, CBS-2240		
29	1	1001.00413.00	COVER TOP, CBS-2231/41		
30 31	12	1001.00414.00 1082.00017.00	COVER, UPPER BASE, CBS-2231/41		
32	12	1046.00035.00	SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG. LABEL, WARNING "TO REDUCE RISK OF ELECTRIC SHOCK OR FIRE"		
33	1	1402.00106.00	HARNESS, CBS-2240/50-NG, LOW AMP, UNIVERSAL		
34	1	1063.00042.00	ETHERNET CABLE, CAT-7, 5FT LENGTH		
35	1	1046.00003.00	LABEL, CSD WARNING, 1.5" X 5.0"		
36	1	1041.00032.00	BLACK EXTRACTOR NG LABEL, LASER ENGRAVED		
		See Drawing			
37	1	Pages 22 & 23	TANK ASSEMBLY, CBS-2241, 2 X 1.5KW/120VAC		
38	1	1402.00039.10	HARNESS HIGH AMP, CBS-2231/41/51, UL		
39	1	B014218BN2BK	BREW BASKET ASSY, BLK, 13" X 5", 0.218" DIA HOLE, BWN PLUG (Page 28)		
40	1	B003218B1	BREW BASKET ASSY, 13" X 5", .218 DIA HOLE, BLK (Page 28)		
41	1	1024.00111.00	GROMMET, SILICONE, W/ POSITION TABS		
42	1	1023.00362.00	FITTING VENT, ELBOW, .375" X .375", SELF POSITIONING		
43	1	1013.00130.00	TUBE, 304SS, .562OD X .028 WALL X 9-1/4" LG.		
44	1	1023.00348.00	HOT WATER INSERT, MANUAL FAUCET		
45	1	1071.00055.00	FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM		
46	1	1084.00048.00	JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS		
47	1	1003.00370.00	HOT WATER INSERT LOCK		
48	1	1025.00120.00	TUBE, 9/16"OD X 5/16"ID X 13.00"LG		
49	1	1023.00346.00	HOT WATER INSERT, AUTO FAUCET		
50	1	1029.00041.00	COVER, AUTO HOT WATER FAUCET, SILICONE		
51	1	1023.00347.00	VALVE MOUNT, HOT WATER DISPENSER		
52	2	1023.00369.00	ORIFICE INSERT, QUICK CONNECT, 3/16" HOLE		
53	2	1057.00076.00	VALVE ASSEMBLY, COMPLETE, NG, DELTROL		
54	2	1025.00138.00	TUBE, SILICONE, 3/4" OD X 1/2" ID X 1-1/2" LG, HOT WATER		
55	1	1025.00135.00	TUBE, 1/2"OD X 1/4"ID X .75" LG, RESTRICTOR		
56	1	1025.00026.00	TUBE, 1/4"OD X 1/8"ID X 30"LG, VENT, HOT WATER VAPOR		
57	2	1024.00051.00	GROMMET, SILICONE, BLANK		
58	1	1023.00349.00	HOT WATER INSERT, NO FAUCET		
59	1	1029.00042.00	BYPASS L-TUBE, SILICONE, 2200 SINGLE SERIES		
60	1	1023.00344.00	PLUG INSERT, QUICK CONNECT		
61	1	1102.00445.00	ASSY, BREW BASKET LOCK COVER		
62	1	1003.00259.00	BRACKET, BREW BASKET LOCK COVER		
63	4	1083.00009.00	WASHER, #6 SCREW, INTL TOOTH LOCKWASHER		
64	2	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED		
65 66	4	1073.00002.00	LEG, FLANGE FOOT, 4.0" HIGH		
66 67	1	1086.00008.00 1083.00032.00	CONNECTOR, CLAMP, NON-METALLIC CABLE, 3/4" WASHER, FLAT, 1.250"OD X 0.835"ID, SS		
68			WASHER, FLAT, 1.250 OD X 0.835 ID, SS SKINTOP, 1/2" NPT, Ø.157"354" CABLE, BLK		
	1	1086.00048.00	LOCKNUT, SKINTOP, 1/2" NPT, BLACK HEX		
69 70	1	1086.00049.00 1044.00013.00	LABEL EQUIPOTENTIALITY, CE		
70	1	1052.00029.00	EMI FILTER, TWO LINE 20A, 120/250VAC		
71	2	1084.00012.00	NUT, HEX, #6-32 MACHINE SCREW		
73	1	1063.00016.00	POWER CORD, 120VAC W/NEMA 5-15P PLUG		
74	1	1063.00015.00	CORD, 120 VAC, 12/3 AWG ,20 AMP , W/5-20P NEMA PLUG		
75	1	1402.00039.11	HARNESS ADDITION, HIGH AMP, CBS-2231/41/51, UL		
76	1	1402.00033.11	WIRE HARNESS ADDITION, HIGH AMP, EMI FILTER, 2-POLE, CE		
77	1	1025.00142.00	TUBE, SILICONE, 3/4" OD X 1/2" ID X 3.75" LG, BREW		
• • •	•	. 320.00112.00			

CBS-2241Next Generation Hot Water Tank Assembly, Single Heater

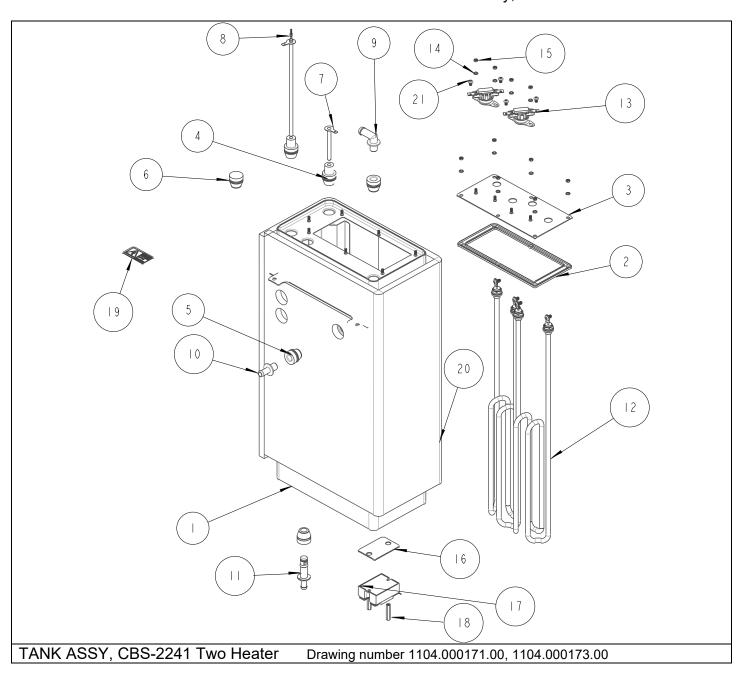


TANK ASSY, CBS-2241 Single Heater For drawing numbers: 1104.00178.00; 1104.00180.00; 1104.00182.00; 1104.00184.00; 1104.00185.00; 1104.00186.00

	TANK ASSY, CBS-2241 Single Heater Parts List			
Ref	Qty	PART NO	DESCRIPTION	
1	1	1114.00170.00	WELDMENT, TANK, CBS-2241	
2	1	1024.00114.00	TANK GASKET - NG HEATER PLATE, TWO ELEMENT	
3	1	1114.00184.00	WELDMENT TANK HEATER BRACKET, NG-LARGE, TWO HEATER	
4	2	1024.00053.00	LEVEL AND TEMP PROBE GROMMET	
5	3	1024.00050.00	GROMMET, SILICONE, 11.4mm ID	
6	1	1053.00052.00	THERMOSTAT, SINGLE SHOT, SCREW CONNECTIONS, 240V/25A	
7	8	1083.00009.00	WASHER, #6 SCREW , INTL TOOTH LOCKWASHER	
8	8	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED	
9	1	1107.00030.00	HEATER ASSEMBLY, IMMERSION 1500W/120VAC (Tank 1104.00178.00)	
9	1	1107.00031.00	HEATER ASSEMBLY, IMMERSION 1700W/120VAC (Tank 1104.00180.00)	
9	1	1107.00029.00	HEATER ASSEMBLY, IMMERSION 2300W/120VAC (Tank 1104.00182.00)	
9	1	1107.00037.00	HEATER ASSEMBLY, IMMERSION 2300W/240VAC (Tank 1104.00184.00)	
9	1	1107.00005.00	HEATER ASSEMBLY, IMMERSION 3000W/240VAC (Tank 1104.00185.00)	
9	1	1107.00010.00	HEATER ASSEMBLY, IMMERSION 4000W/240VAC (Tank 1104.00186.00)	
10	1	1003.00140.00	ALUMINUM BRACKET FOR SSR	
11	1	1052.00033.00	RELAY, SOLID STATE, 50A/480VAC, W/BUILD IN VARISTOR	
12	2	1081.00042.00	STANDOFF, 1/4" HEX	
13	1	1112.00019.00	PROBE WELDMENT, WATER LEVEL 2.600" LG	
14	1	1102.00161.00	PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG	
15	1	1023.00203.00	FITTING, STRAIGHT, GROMMET, .625"	
16	1	1023.00166.00	FITTING, COLD WATER INLET, GROMMET DESIGN	
17	1	1044.00004.00	LABEL, DANGER, HIGH VOLTAGE	
18	1	1024.00051.00	GROMMET, SILICONE, BLANK	
19	1	1023.00212.00	FITTING, ELBOW, GROMMET, .500"	
20	1	1022.00115.00	TANK INSULATION, CBS-2241	
21	2	1082.00136.00	BRASS SCREW, #8-32 X 1/4", PHILLIPS PAN HEAD	

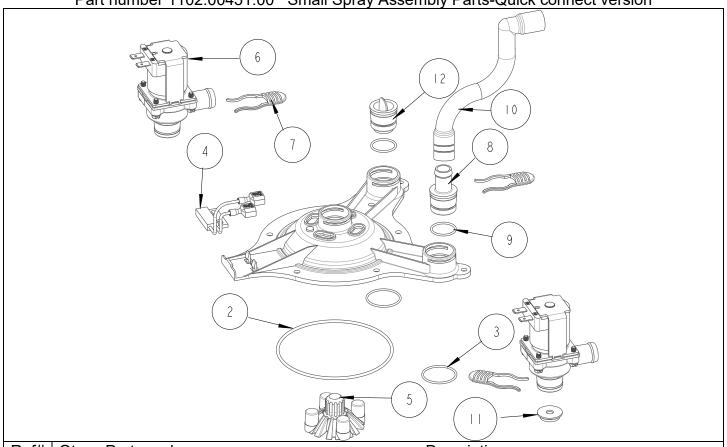
Table of authorities for CBS-2241NG replacement hot water tank module-tank is sold complete with insulation				
SKU Number. See page 3 for list	Description	Tank Part Number		
E2241US-1A115-PA011	TANK , CBS-2241, 1 X 1.5KW/120VAC	1104.00178.00		
E2241US-1A115-PA011; E2241US-1A123-PM112	TANK, CBS-2241, 1 X 2.3KW/120VAC	1104.00182.00		
E2241IN-1B123-PA010	TANK, CBS-2241, 1 X 2.3KW/240VAC	1104.00184.00		
E2241IN-1B130-MM010; E2241IN-1B130-MM010 E2241KS-1B130-PM010; E2241CE-1B130-PA0005	TANK , CBS-2241, 1 X 3.0KW/240VAC	1104.00185.00		
E2241NM-1B140-PA010	TANK, CBS-2241, 1 X 4.0KW/240VAC	1104.00186.00		

CBS-2241Next Generation Hot Water Tank Assembly, Dual Heaters

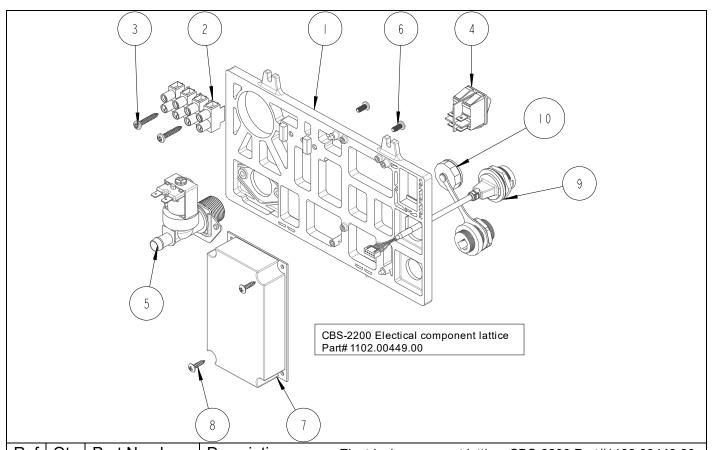


TANK ASSY, CBS-2241 Dual Heater Parts List					
REF	QTY	Part number	Description		
1	1	1114.00168.00	WELDMENT, T	TANK, CBS-2241	
2	1	1024.00114.00	TANK GASKET	Γ - NG HEATER PLATE, TWO ELEMENT	
3	1	1114.00176.00	WELDMENT TA	ANK HEATER BRACKET, NG-2231	
4	2	1024.00053.00	LEVEL AND TE	EMP PROBE GROMMET	
5	3	1024.00050.00	GROMMET, SI	LICONE, 11.4mm ID	
6	2	1053.00052.00	THERMOSTAT	T, SINGLE SHOT, SCREW CONNECTIONS,	240V/25A
7	10	1083.00009.00	WASHER, #6 S	SCREW , INTL TOOTH LOCKWASHER	
8	10	1084.00010.00	NUT, HEX, #6-	32, UNDERSIZED, ZINC PLATED	
9	2	1107.00022.00	HEATER ASSE	EMBLY, IMMERSION 1700W/120VAC	
9	2	1107.00019.00	HEATER ASSE	EMBLY, IMMERSION 2300W/120VAC	
10	2	1003.00140.00	ALUMINUM BR	RACKET FOR SSR	
11	2	1052.00033.00	RELAY, SOLID	STATE, 50A/480VAC, W/BUILD IN VARIST	OR
12	4	1081.00042.00	STANDOFF, 1/	/4" HEX	
13	1	1112.00002.00	PROBE WELD	MENT, WATER LEVEL 2.25" LG	
14	1	1102.00161.00	PROBE ASSEM	MBLY, TEMP. AND LLC, 8" LONG	
15	1	1023.00168.00	FITTING, STRA	AIGHT, GROMMET, .400"	
16	1	1023.00166.00	FITTING, COLI	D WATER INLET, GROMMET DESIGN	
17	1	1044.00004.00	LABEL, DANG	ER, HIGH VOLTAGE	
18	1	1023.00212.00	FITTING, ELBO	DW, GROMMET, .500"	
19	1	1024.00051.00	GROMMET, SILICONE, BLANK		
20	1	1022.00114.00	TANK INSULATION, CBS-2241		
21	4	1082.00136.00	BRASS SCREV	W, #8-32 X 1/4", PHILLIPS PAN HEAD	
			replacement ho	t water tank module-tank is sold complete wi	th insulation
		See page 3 for list		Description	Part Number
			-1A123-PA012	TANK CBS-2241, 2 X 2.3KW/120VAC	1104.00173.00
E2231	US-1X1	17-PA011		TANK CBS-2241, 2 X 1.7KW/120VAC	1104.00171.00

Part number 1102.00451.00 Small Spray Assembly Parts-Quick connect version

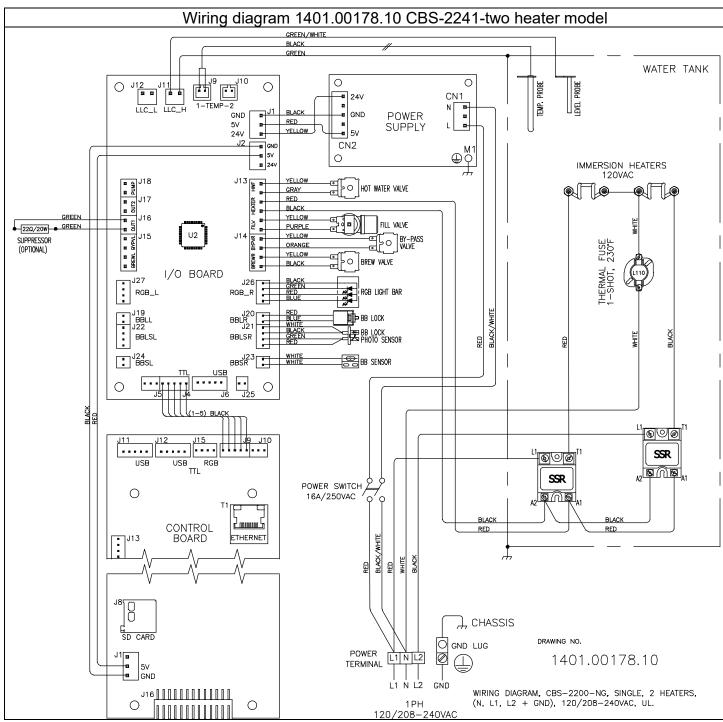


Ref#	Qty	Part number	Description
1	1	1000.00143.00	SPRAY HEAD BASE (KIT), QUICK CONNECT, 30/40'S
2	1	1024.00063.00	O-RING, 3 15/16" x 3/32" CS, DASH # 154, BUNA-N, DURO-A50
3	2	1024.00107.00	O-RING, 1 3/16" OD X 1 1/16" ID X 1/16" TH, BYPASS SEAL
4	1	1102.00113.00	SWITCH, REED, ASSEMBLY
5	1	1102.00479.00	ASSEMBLY, CASCADE SPRAY DOME, NEXT GEN, ORANGE
6	2	1057 00076 00	VALVE ASSEMBLY, COMPLETE, NG, DELTROL
O	2	1057.00076.00	(interchangeable with 1057.00078.00)
6	2	1057.00078.00	VALVE ASSEMBLY, COMPLETE, NG, RPE
U	2		(interchangeable with 1057.00076.00)
7	3	1023.00342.00	QUICK CONNECT CLIP
8	1	1023.00343.00	VENT INSERT, QUICK CONNECT
9	2	1024.00106.00	O-RING, 13/16"OD X 11/16"ID X 1/16" TH, FOR QUICK CONNECT
10	1	1024.00098.00	VENT TUBE, CBS- EXTRACTOR SERIES
11	1	1023.00369.00	ORIFICE INSERT, QUICK CONNECT, 3/16" HOLE
12	1	1023.00344.00	PLUG INSERT, QUICK CONNECT



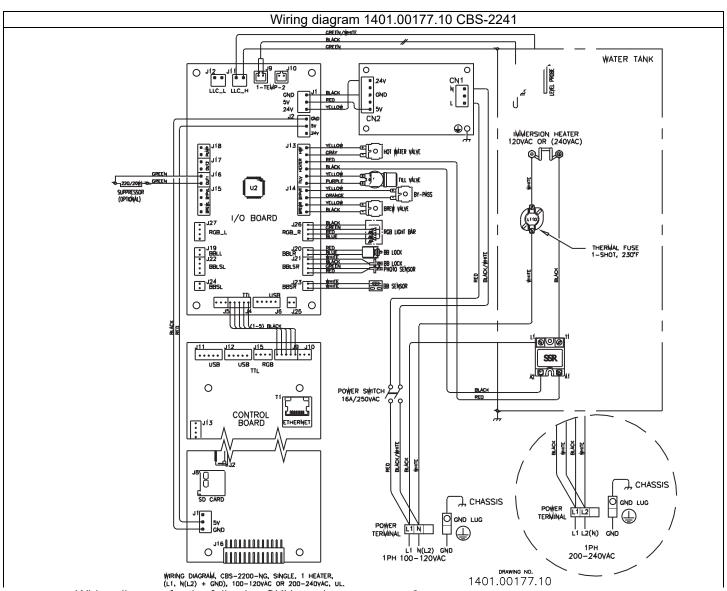
Ref	Qty	Part Number	Description Electrical component lattice, CBS-2200 Part#1102.00449.00
		1102.00449.00	COMPLETE ELECTRICAL COMPONENT LATTICE, CBS-2200
1	1	1023.00350.00	ELECTRICAL MOUNTING LATTICE, COMMON
2	1	1052.00023.00	EUROSTRIP HE16 TERM. BLOCK, 4 POLE, 63 AMP, 18-8 AWG
3	2	1082.00056.00	SCREW, #8-11 X 1" PAN HD PHIL, THREAD FORMING
4	1	1058.00024.00	SWITCH, POWER, DOUBLE POLE, 16A, 125/250 VAC
5	1	1057.00043.00	SOLENOID VALVE, 5.5L/min, 180 DEG, 24VDC
6	2	1082.00010.00	SCREW, PAN HD. PHIL. MACH., M4x10 ZINC-PLATED
7	1	1052.00059.00	POWER SUPPLY, 90-264VAC/24VDC, 2.25A
8	2	1082.00020.00	SCREW, #6 X 5/8, TRUSS HD PHIL, SHEET MTL
9	1	1058.00055.00	USB CONNECTOR
10	1	1058.00162.00	ETHERNET PLUG IN CONNECTOR, W/COVER

Wiring diagrams

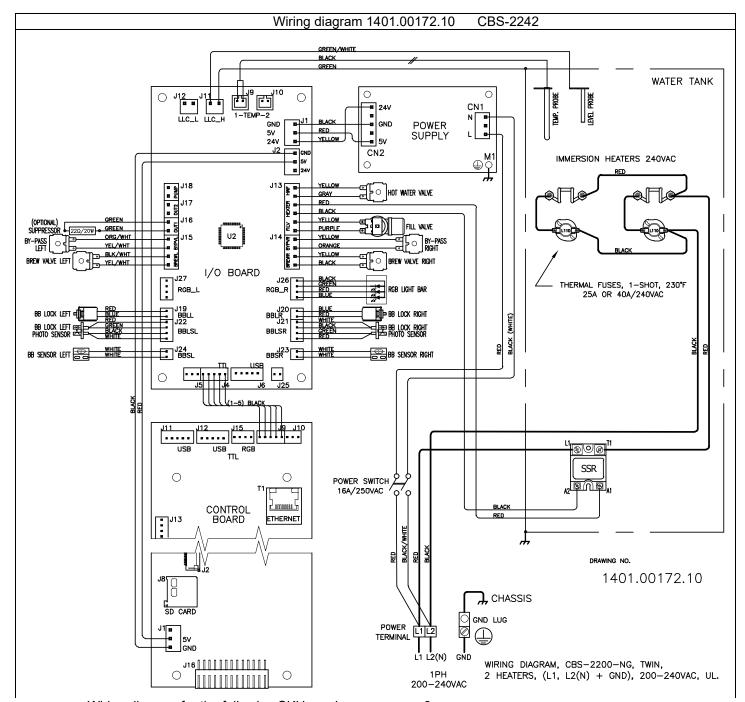


Wiring diagram for the following SKU numbers-see page 3

E2241US-1X117-PA011	CBS-2241,DUAL VOLT, 1Ph, 2+G/3+G, 2x1.7xW/120VAC, 120/208-240VAC
E2241NM-1X123-PA012	CBS-2241,NOM,DUAL VOLT,1Ph, 2+G/3+G, 2x2.3xW/120VAC, 120/208-240VAC
E2241US-1A123-PM112	CBS-2241, 1Ph, 2+G, 2.3xW/120VAC
E2241US-1A123-PA012	CBS-2241, 1Ph, 2+G, 2.3xW/120VAC
E2241US-1A115-PA011	CBS-2241, 1Ph, 2+G, 1.5xW/120VAC
E2241NM-1B140-PA010	CBS-2241, NOM, 1Ph, 2+G, 4.0xW/240VAC
E2241IN-1B140-PA010	CBS-2241, INTL, 1Ph, 2+G, 4.0xW/240VAC
E2241IN-1B130-PA010	CBS-2241, INTL, 1Ph, 2+G, 3.0xW/240VAC
E2241IN-1B123-PA010	CBS-2241, INTL, 1Ph, 2+G, 2.3xW/240VACC



Wiring diagram for the following SKU numbers-see page 3 E2241US-1A123-PM112 CBS-2241, 1Ph, 2+G, 2.3xW/120VAC



Wiring diagram for the following SKU numbers-see page 3

E2242US-1B230-PA010	1Ph, 2+G, 2x3kW/240VAC Terminal Block
E2242US-1B230-MA110	1Ph, 2+G, 2x3kW/240VAC Terminal Block
E2242US-1B223-PA010	1Ph, 2+G, 2x2.3kW/240VAC Terminal Block
E2242NM-1B230-PA010	NOM, 1Ph, 2+G, 2x3kW/240VAC Terminal Block
E2242IN-1B230-PA010,	INTL, 1Ph, 2+G, 2x3kW/240VAC Terminal Block
E2242IN-1B223-PA010,	INTL, 1Ph, 2+G, 2x2.3kW/240VAC Terminal Block

End of section notes																						
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