

FETCO User's Guide and Operator Instructions

CBS-2231 & CBS-2232 Next Generation Brewing System

FETCO Next Generation-NG® Commercial Beverage Equipment





CBS-2231

CBS-2232

(Dispensers not included) (Plastic brew baskets are standard, brewers availble with optional stainless steel brew baskets)



CONTACT INFORMATION

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COFFEE BREWER CBS-2230NG Series

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uction only available for these models.
Coffee Filter Size:
13" X 5 or FETCO# F002"
Temperature, as set by factory: 200°F (93°C) inside water tank (at sea level)
Electrical: See electrical configuration chart Pg 3.

Brew Capacity (approximate) CBS-2231 4-8 brews per hour CBS-2232 5-16 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

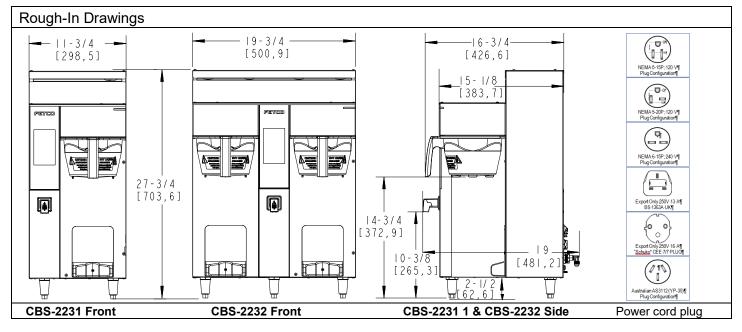
Individual menu brew-process parameters are user controllable for:

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 and	d Capaciti	es							
Model	Height	Width	Depth	Water tank capacity	Empty Weight	Filled Weight	Shipping Weight	Shipping Dimensions	
CBS-2231	27 3/4 ir	11 3/4 in	20 3/8 in	3.3 gallon	29 lbs	55 lbs	41 lbs	30" x 17" x 22"	
Brewer	700 mm	300 mm	520 mm	12.4 L	13.2 kg	25.0 kg	18.6 kg	76.2 x 43.2 x 55.9 cm	
CBS-2232	27 3/4 ir	19 ¾ in	20 3/8 in	6.0 gallon	47 lbs	92 lbs	55 lbs	30" x 23" x 25"	
Brewer	700 mm	500 mm	520 mm	22.4 L	21.3 kg	41.7 kg	25.0 kg	76.2 x 58.4 x 63.5 cm	
Calibrated for 3.8 L/1.0 ga		Brew Basket	t 13" X 5"	5" Coffee Filter 13" X 5 or FETCO# F002" 1" legs standard 2.5" legs option					



EXAMPLE: SKU E2231US-1X117-PM001							SKU NUMBER IDENTIFICATION KEY										
Product Line	Le	evel	<u>Far</u>	nily	Regi	on ID	<u>Phase</u>	Voltage Range	# Heaters		ual Heat attage		Brew Basket	Hot Water Faucet	Bypass	Brew Basket Locks	Power Cord
E	2	2	3	1	U	S	1	Α	1	1	5		Р	М	0	0	1
E=extractor						Jnited ates	1	A = 100-120	1		1.5	P=	=plastic	M=manual	1=Yes	1=Yes	0=Terminal Block
		PLUS ries		1= e side		l = ational	2	B = 200-240	2		1.7	М	=metal	A=automatic	0=No	0=No	1= NEMA 5-15P
22=Nex Generat				2= side	CE =	= IEC	3	C = 380-415	3		2.3		=metal th clips	N=None			2=NEMA 5-20P
					NM =	NOM	U = 1 or 3	D = 440-480	6		3.0		•				3=NEMA 6-15P
											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)

ourour aria oatpat opoor	noationio							
CBS-2231Next Gen Single 3.0-4.0 Liter Coffee Brewers Field configurable Domestic								
Electrical and Output	Electrical and Output Specifications Brewer has factory installed cord and plug & terminal block 50Hz or 60Hz							
SKU	Voltage	Heater	Wires	KW	Electrical	Phase	Amp Drow	Brew-Volume
SKU	vollage	Configuration	vviies	rvv	Connection	rnase	Amp Draw	Brew-Volume per hour
E2231US-1X117-PA011	120	1 X 1.7 kW	2+G	1.7	NEMA 15-5P	1		3.9 gal/14.8 L
Domestic-Dual Voltage	208-240	2 X 1.7 kW	2+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	CBS-2231Next 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								
SKU	SKU Voltage Heater Configuration Wires KW Electrical Connection Phase Amp Draw per hour							
E2231US-1A115-PA011	120	1 X 1.5 kW	2+G	1.5	NEMA 15-5P	1	13.0	4.0 gal/15.1 L
E2231US-1A123-PA012	120	1 X 2.3 kW	2+G	2.3	NEMA 5-20P	1	19.7	5.8 gal/22 L

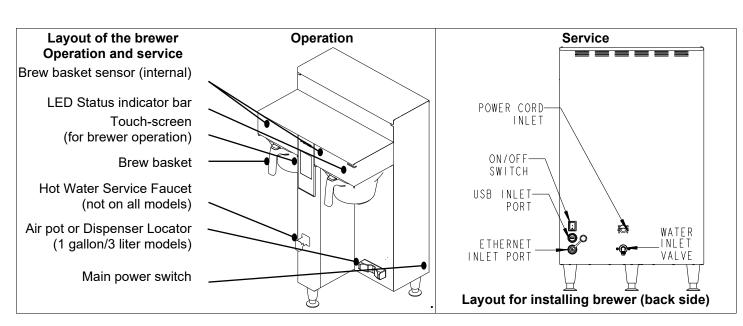
	CBS-2231Next Gen Single 3.0-4.0 Liter Coffee Brewers Field configurable NOM (Mexico) In Spanish								
Electrical and Output	Electrical and Output Specifications Brewer has factory installed cord and plug & terminal block 50Hz or 60Hz								
SKU	Voltage	Heater	Wires	KW	Electrical	Phase	Amp Draw	Brew-Volume	
SKU	voltage	Configuration	VVIIES	Γ\VV	Connection	riiase	Amp Draw	Brew-Volume per hour	
E2231NM-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	2+G	4.6	Terminal Block	1	17.1-19.7	7.6 gal/30 L	
NM in SKU suffix (above) de	NM in SKU suffix (above) denotes equipment with NOM certification, Spanish labeling for Mexico and Spanish language user guide								

CBS-2231Next Gen Single 3.0-4.0 Liter Coffee Brewers International models								
Electrical and Output	Specifica	itions All bre	wers hav	e termin	al block electrica	ıl utility c	connection 5	50Hz or 60Hz
SKU	Voltage	Heater	Wires	KW	Electrical	Phase	Amp Draw	Brew-Volume
ONO	Voltage	Configuration	VVIICS	Connection			Amp blaw	per hour
E2231NM-1A123-PA012	120	1 X 2.3 kW	2+G	2.3	NEMA 5-20P	1	19.7	5.8 gal/22 L
E2231NM-1A123-PA012	208-240	1 X 3.0 kW	2+G	2.3-3.0	NEMA 6-15P	1	11.3-13.0	7.9 gal/30.0 L
NM in SKU suffix (above) der	notes equip	ment with NOM c	ertification	n, Spanish	n labeling for Mexic	co and Sp	oanish langua	ige user guide
E2231IN-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
E2231IN-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

СВ	CBS-2232Next 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	Wires	KW	Electrical	Phase	Amp Draw	Brew-Volume	
SKU	voltage	Configuration	VVIIES	IZVV	Connection	riiase	Amp Draw	Brew-Volume per hour	
E2232US-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	
E2232US-1B223-MA110	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	
E2232US-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	
E2232US-1B230-PA110	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	
E2232US-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	

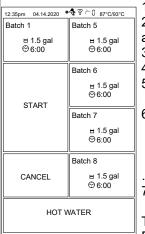
CBS	CBS-2232Next Gen Dual 3.0-4.0 Liter Coffee Brewers International models								
Electrical and Output Specifications All brewers have terminal block electrical utility connection 50Hz or 60Hz									
SKU	Voltage	Heater	Wires	KW	Electrical	Phase	Amp Draw	Brew-Volume	
SKU	voltage	Configuration	vviies	rvv	Connection	riiase	Amp Draw	per hour	
E2232IN-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	
E2232IN-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	
E2232IN-1B230-MA110									
E2232NM-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									
NM in SKU suffix (above) der	notes equip	ment with NOM c	ertification	n, Sp <mark>anis</mark> ł	n labeling for Mexic	co and S	oanish langua	ige user guide	

Customer options	BREW BASKET TYPE (P, M)	HOT WATER FAUCET (M, A OR N)	BYPASS (1 OR 0)	Brew Basket Lock (1 OR 0)
* is factory standard feature	*P=Plastic	*M=Standard manual	*1=With	*1=With
Add all the following numbers	M=Gourmet Metal	A=Automatic electronic	0=None	0=None
after all SKU numbers		N=No hot water faucet		



Fast Start brewing

Starting The Brew



- 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)
- 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.

Batch 1 1.5 gal 6:00 由 1.5 gal ⊕ 6:00 SH SH Batch 7 ⊟ 1.5 gal ⊕ 6:00 Batch 8 STOP HOT WATER

12:35pm 04.14.2020 ◆♣ 🛜 广 Ո 87°C/93°C

Brewing in process Batch one selected

Twin Brewer ready to brew.

Batch one-top left brew position selected

Programming

To enter programming

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

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



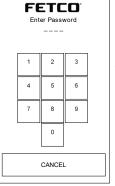
Hardware ver. 1.01

Bootup screen

Bootloader ver. 0.23

(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



Make changes and adjustments from the

Programming Menu screen

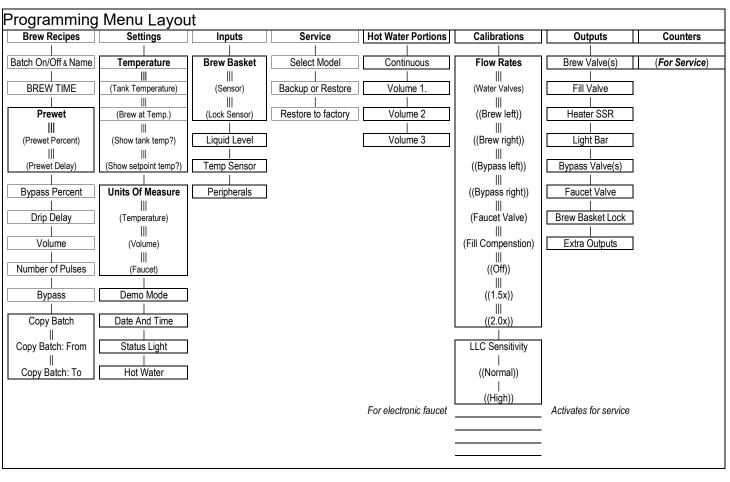
(Shown right→)

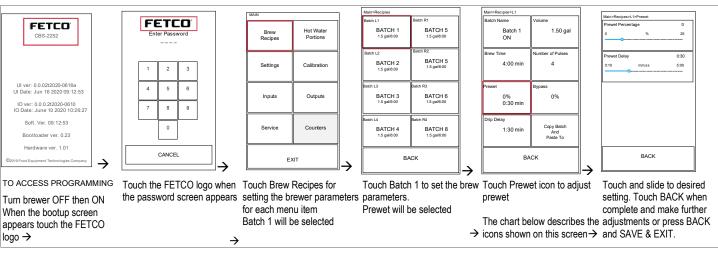
See progamming menu layout next page

Hot Water Brew Calibration Settings Outputs Inputs Counters EXIT

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

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 Faucet Temperature Tempe
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

(Not recommended)

Brew At Temp: "OFF" USER SELECTABLE (Not reallows 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

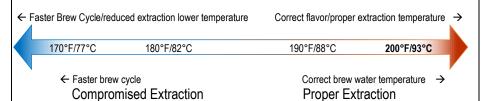
CI	Chart to correct for altitude for boiling point in tank water temperature.							
[ft]	[m]	Suggested Setting[°F]	Boiling point[°F]	Suggested Setting[°C]	Boiling point [°C]			
0	0	205	212.0	96	100.0			
500	152	205	211.0	96	99.5			
1000	305	200	210.1	93	98.9			
2000	610	200	208.1	93	97.8			
2500	762	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 rapid brewing cycles in a rush, low power heating elements, cold 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.



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-2232	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			Override Safety Features Left Right Brew Basket Sensor OFFON OFFON Brew Basket Lock OFFON OFFON Br. Basket Lock Sensor OFFON OFFON HW Press and hold OFFON OFFON	
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	
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			

Hot Water Portions	Program Items	Factory set Default	Programming Range	Notes
This setting is only fo	r brewers with an e	lectronic hot water fau	cet. In the <u>SETTINGS</u> menu, th	e "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 30 O	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 30 O	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	Sets limit for #3 touch and dispense

Calibration	Program Items	Factory set Default	Programming Range	Notes
Flow Rates Water Valves	Brew left	1800 ml/min	Brew Left 1800 (ml) 1450 ml/min 2100 O	Use to attenuate and compensate for variations in brew valve output
Flow Rates Water Valves	Brew right	1800 ml/min	Brew Right 1800 (ml) 1450 ml/min 2100 O	Use to attenuate and compensate for variations in brew valve output
Flow Rates Water Valves	Bypass left	1350 ml/min	Bypass left 1350 (ml) 1050 ml/min 1600 O	Use to attenuate and compensate for variations in bypass valve output
Flow Rates Water Valves	Bypass right	1350 ml/min	Bypass right 1350 (ml) 1050 ml/min 1600 O	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 5000O	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 Scroll and go to EXIT&SAVE	Use for FloJet bottled water supply or for reduced water supply from mains.
Display			Display % Contrast 100 100 Brightness % 200 100	
LLC		NORMAL	o Normal o High Scroll and go to EXIT&SAVE	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 <u>CURRENT SETTING</u> 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 volume dispensed by the programmed volume and then multiply by the current setting

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

- -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	talaps et outes	49гс жижи	Obtain Programmed Value	Obtain Current Setting	Use the formula above	Enter the New Flow Rate
Example:	Balch 1 ± 1.5 gal	Batch 5 M 1.5 gal © 630	The Programmed value	The valves flow rate is in the		
A CBS-2232 delivered 3qts or 6oz	@0:00 Batch 2	Datch 6	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-2232 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	ы10 gal Ø500	±10 gai ∰1500	home screen in the	0.40 gal/min 0.58	0.8	0
(96oz÷128=0.75)	G 95:30	9530	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.
	HOTY	VATER	The value is v.o gallon		0.47	Retesting recommended
By entering the ne	w flow	v rate	number into the brewer	, the software automatically	corrects the volun	ne discrepancy

Outputs	Program Items	Factory set Default	Programming Range			Notes
These settings are ι	used to activate indivi	dual controls for testing	g verificati	ons an	d servicing op	erations
Brew Valve(s)	Momentarily operate Left or Right Brew valves		Brew	Left {}	Right ∱	Have dispenser under spray head! Touch to activate flow
Fill Valve	Momentarily operate fill valve		Fill		8	Have dispenser under spray heads! Touch to activate flow
Heater SSR	Turns on all heaters		Heate 3 sec ma		\$	Activates SSRs to turn on heaters
Light Bar	Momentarily operate light bar(s)		Status Lig	ght	6	
Bypass Valve(s)	Momentarily operates Left or Right Bypass valves		Bypass	Left {}	Right \{\}	Have dispenser under bypass port! Touch to activate flow
Faucet Valve	Momentarily operate faucet valve	For brewers with automatic hot water faucet	Faucet		В	Have dispenser under faucet! Touch to activate flow
Brew Basket Lock	Operates brew basket locks, toggling them on and off		BBL Unlock BBL Sensor	Left \$\frac{1}{\dots}\$ Left \$\frac{1}{\dots}\$ Left \$\cdots\$	Right Right Right 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	sage of the brewers	functions	1	
Lifetime Counters			Main>Counters>Lifetime>Service	
	Service Counters		Lifetime Counters (units in hours and liters) Unit Uptime 0 Fill Valve Volume 0 Activation 0 Heater Time On 0 Activation 0 Hot Water Dispense Count0 Hot Water Valve Volume 0 Activation 0 Brewer Volume 0 Brewer Volume 0 Brew Valve	
	Hot Water Counters		Mary-Counters-Lifetime	
	Brew Counters		1	
	Data Counters	Reserved for future		
Water Filter	Water Filer Life Time			

Brewer Setup

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

1) attach legs for 3 Liter/ 1 Gallon dispensing



- 1" legs -
- Attach this length for
- 3 Liter air pot configuration
- 3 required for CBS-2232
- 4 required for CBS-2231



2-1/2" legs -

Attach this length for

1 Gallon dispenser or 3 liter air pot.

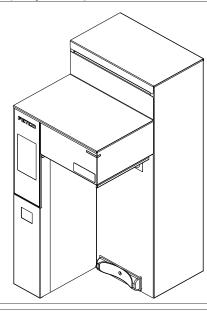
Part number 1073.00016.00

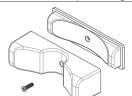
3 required for CBS-2232

4 required for CBS-2231

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

2) Adjust dispenser locator for either 3 Liter / 1 Gallon dispensing

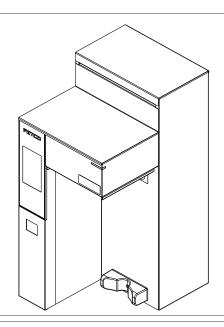




Set Dispenser Locator

← Shown with 1 gallon dispenser locator -(User option)

Shown with 3 liter air pot Locator →
-(Factory installed)

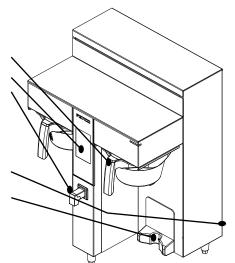


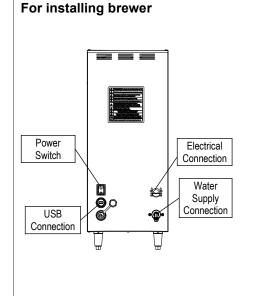
Layout of the brewer

Operation and service

Brew basket Keypad for brewer operation Hot Water Faucet

ON/OFF Switch Air pot or Dispenser Locator (Two for twin side)

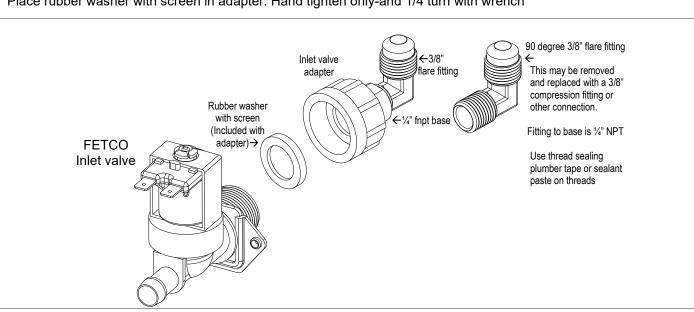




Brewer Setup

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 USA dishwasher water adapter or USA washing machine adapter for this connection.

The threads on these 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 (¾" 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.

Installation Guide

(For Qualified Service Technicians Only)

General:

If not installed correctly by qualified personnel, the brewer will not operate properly and damage may result.

Utilize only qualified beverage equipment service technicians for service and installation.

Always have an empty dispenser under spray head of all coffee brewing equipment-including when at idle

Damages resulting from improper installation are not covered by the warranty, and will void the warranty.

Electrical:

All FETCO brewers require an electrical ground wire. Installation without grounding is dangerous.

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.)

Verify voltages, polarity, circuits, and circuit breaker access before attaching equipment.

Brewers in this series wire differently in regards to a neutral wire. Review the wire diagrams.

The electrical diagram is located in the User's Guide and online at www.fetco.com.

Make sure of the tight grounding of the equipment and use the external ground bolt.

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:

North America: All installations must comply with applicable federal, state, or local plumbing codes.

All Others: The water and waste piping and connections shall comply with the International Plumbing Code 2003, International Code Council (ICC), or to the Uniform Plumbing Code 2003 (IAPMO).

Use an inline water filter for all beverage equipment.

Install the filter unit after a water shutoff valve and in a position to facilitate filter replacement.

The water line and newly installed filter cartage must be flushed thoroughly prior to connecting it to the brewer to prevent debris from contaminating the machine.

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.

Use a wrench on the factory fitting when connecting the incoming water line. This will reduce stress on the internal connections and reduce the possibility of leaks developing after the install has been completed

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.

Tank Drain

The water tank must be drained before maintenance procedures, and when the unit is to be relocated or shipped

Disconnect power and water to unit. DANGER: Insure that all utility connections to the brewer are broken.

Move the unit near a sink or obtain a container large enough to hold four gallons of water.

→Note: the hot water tank may hold more than four gallons.

Remove the front panel and tank cover and allow the tank to cool to a safe temperature

The tank drain line and clamp are located inside-under the hot water tank. Pinch the drain line clamp to close

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

Crimp the tube an inch or two away from the drain plug to prevent water from flowing and pull it off the valve.

Pull the tube end out of the brewer and position over sink or bucket.

Release the crimped tube and hose clamp and allow the water to flow into the sink or container.

Multiple buckets may be needed during the draining, see tank volumes below.

Brewer	Hot Water Tank Capacity	OPEN Leave open for use	
CBS-1231 Single	3.3 gal 12.3 liter	,	
CBS-1232 Twin	6.0 gal 22.4 liter	PINCH SHUT 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:

Always pre-heat the dispensers before the first use of each day by filling them halfway with hot water and letting them stand for at least 5 minutes.

Do not remove the brew basket from a coffee brewer until it has stopped dripping.

Make sure the dispenser is empty before brewing into it.

Show how to attach covers, close, and or secure the dispensers for transporting.

Show the location and operation of the water shut off valve as well as the circuit breaker for the brewer.

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.

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:

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 Rinse dispensers before reuse.

Every Day:

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.

Clean dispensers with hot suds water and a brush, rinse and air dry.

Use only a soft cloth and hot suds on the outside to avoid scratches. Never use abrasives that will scratch surface.

Weekly

Use a commercial coffee dispenser cleaner such as URNEX™, TABZ™, DIP-IT™ or Squeak 'n Clean™.

Carefully Follow the instructions supplied with the cleaning product

Never use spray cleaners, solvent, solvent based cleaner or petroleum based polish anywhere on dispensers

Warning

Turn off power before any cleaning procedure, including wiping the exterior for appearance reasons.

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.

Never use solvent or solvent-based cleaner or petroleum based polish anywhere on this equipment.

Dry the face of the touch pad before turning on power

Do not electrically energize this equipment or attempt operation without all covers in place and all screws fastened.

Unplug machine before disassembly or servicing.

Safety Notes

Professional installation is required. This appliance is manufactured only for commercial use

Operational requirements and maintenance for commercial cooking appliances differ from household appliances.

Operators must be trained for this equipment and must understand the use, maintenance and hazards.

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 adult trained personnel.

Do not attempt to move hot beverage equipment once it is filled. Drain equipment before moving.

FETCO commercial coffee brewers prepare large amounts of coffee or tea in a single batch using very hot water

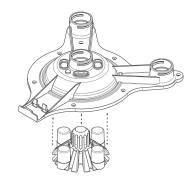
Commercial coffee brewers provide very hot water from the spray head, brew basket and faucet when it is pulled.

Coffee brewers may continue to dispense very hot water from the mechanically operated faucet after the electronic touchpad is completely disabled by turning off the power switch on the lower back of the unit or unplugging the unit.

For safety, the brewer control locks the brew basket for 6.0 minutes after starting the brew.

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.



Warning

Turn off power before any cleaning procedure, including wiping the exterior for appearance reasons.

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.

Never use solvent or solvent-based cleaner or petroleum based polish anywhere on this equipment.

Dry the face of the touch pad before turning on power

Do not electrically energize this equipment or attempt operation without all covers in place and all screws fastened.

Unplug machine before disassembly or servicing.

Installation safety and hygiene directions-For International and CE equipment

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.

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.

Children should be supervised to ensure that they do not play hot beverage equipment.

This unit must be installed and serviced by qualified personnel only.

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.

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.

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).

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.

Brewers will need a sturdy supported surface for operation. Do not move brewers when filled.

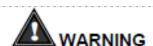
Do not tilt appliance more than 10° to insure safe operation.

Unit is for protected indoor use only. Do not steam clean or use excessive water on unit.

This unit is not "jet-proof" construction. Do not pressure wash or use jet spray to clean this unit.

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



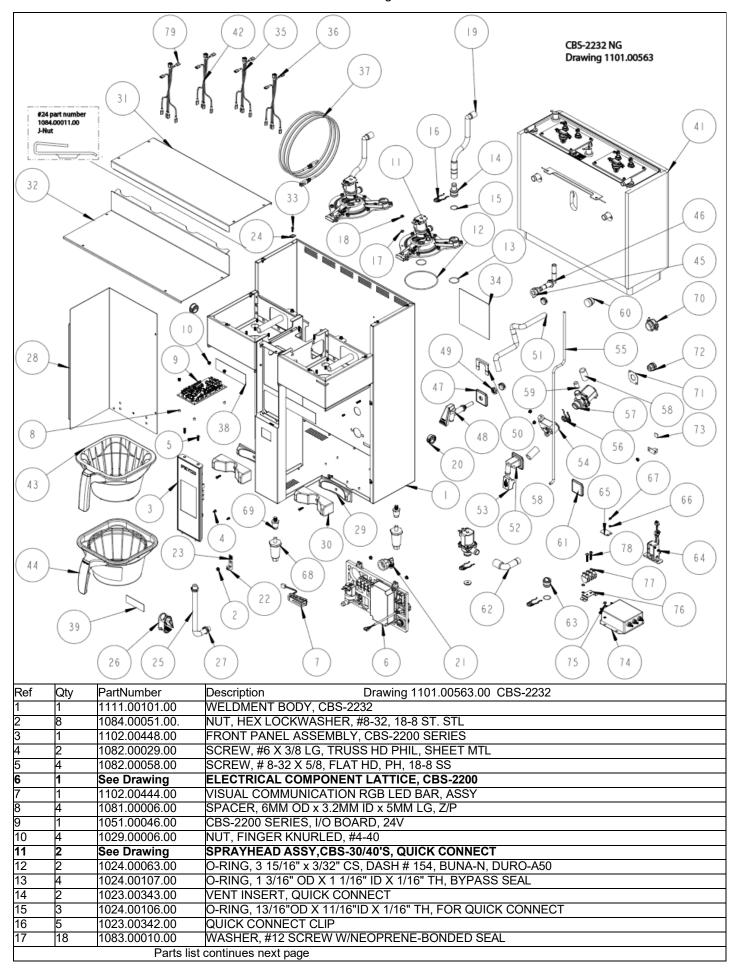
\triangle	WARNING To reduce risk of electric shock or fire.
⚠	FETCO® Hot Beverage Equipment is for commercial use only.
⚠	Do not remove or open cover. No user serviceable parts inside. Refer installation and service to qualified personnel.
Λ	Caution, disconnect from power supply before servicing.
Λ	GROUND: National Electrical Code requires separate grounding wire.
A	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.
\triangle	THIS APPLIANCE IS ENERGIZED WHENEVER IT IS CONNECTED TO A POWER SOURCE
Λ	FAILURE TO COMPLY RISKS EQUIPMENT DAMAGE, PROPERTY DAMAGE, FIRE, OR SHOCK HAZARD
Notice	This equipment must be installed with a backflow protection device to comply with federal, state or local municipality codes.
Notice	Read the user guide before installing and operating this unit.

Labels and warnings for hot beverage equipment Label for BACK PANEL of equipment

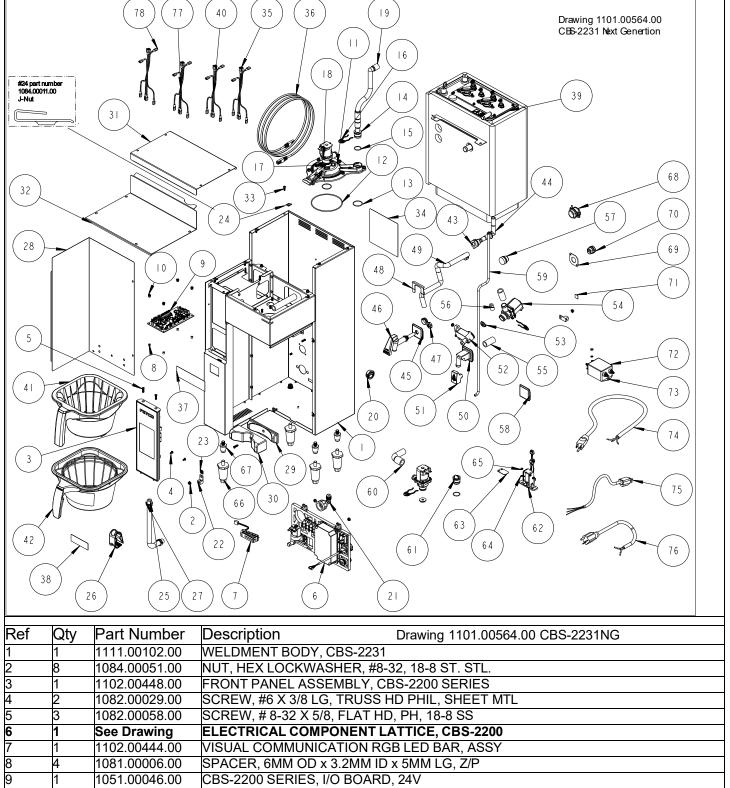
(1046.00035.00)

Plastic Brew Basket For CBS-2241 & CBS-2242 Part Number B014218BN2BK – Complete Plastic Brew Basket 13" X 5", .218 DIA HOLE 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

for polymeric brew baskets				1023.00190.00 RED PLUG, BB HANDLE		
is available in optional colors.	1/6	(Callie 1997)		10	23.00191.00 GREEN PLUG, BB HANDLE	
				10	23.00192.00 ORANGE PLUG, BB HANDLE	
				10	23.00180.00 BLUE PLUG, BB HANDLE	
					•	
Stainless Steel Brew Basket	For CBS	-2241 8	& CBS-2242			
Part Number B003218B1 – Co	omplete :	Stainless	s Steel Brew Ba	ask	et 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	
MATTER A	5	1	1102.00064.00		HANDLE W/MAGNET ASY, BLACK	
1	Optional colored handle		1102.00065.00		HANDLE W/MAGNET ASY, RED	
2	Optional colored handle		1102.00066.00		HANDLE W/MAGNET ASY, GREEN	
5	Optional colored handle		1102.00067.00	1102.00067.00 HANDLE W/MAGNET ASY, OF		
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- Brew Recipes						
Stainless Steel	1		T			
Part Number	Orifice S		Handle Color		Filter Paper Size	
B003218B1 (from above)	0.218-S	andard	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	0	N	Di 0 1		F'' D O'	
Part Number	Orifice S		Plug Color		Filter Paper Size	
B014218BN2BK (from above)	0.218-S	andard	Black		13" X 5" or FETCO# F002	
B014140G2BK	0.140		Green		13" X 5" or FETCO# F002	

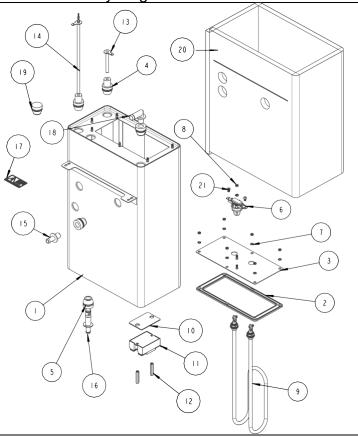


Ref	Qty	PartNumber	Description Drawing 1101.00563.00 CBS-2232NGContinued from page 16
18	18	1084.00006.00	NUT, 8-32 18-8 HEX MACHINE SCREW
19	2	1024.00098.00	VENT TUBE, CBS- EXTRACTOR SERIES
20	2	1086.00004.00	BUSHING, SNAP, 1" MOUNTING HOLE
21	1	1102.00243.00	ADAPTER ASSY, 3/4" BSP x 1/4" NPT x 3/8" 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 29	1	1112.00530.00	WELDMENT, RIGHT COVER, CBS-2230
30	2	1023.00354.00	LOCATOR, DISPENSER, CBS-2230 LOCATOR, AIRPOT ADAPTER, CBS-2230
31	1	1023.00355.00 1001.00408.00	COVER TOP, CBS-2232/42
32	1	1001.00408.00	COVER 10F, CB3-2232/42 COVER, UPPER BASE, CBS-2232/42
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	TANK ASSEMBLY, CBS-2231
42	1	1402.00037.10	HARNESS HIGH AMP, CBS-2232/42/51, UL
43	1	B014218BN2BK	BREW BASKET ASSY, BLACK, 13" X 5", 0.218" DIA HOLE, BROWN PLUG
44	1	B003218B1	BREW BASKET ASSY, 13" X 5", .218 DIA HOLE, BLACK
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 55	1	1023.00347.00	VALVE MOUNT, HOT WATER DISPENSER TUBE, 1/4"OD X 1/8"ID X 30"LG, VENT, HOT WATER VAPOR
56	2	1025.00026.00 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	1	1024.00051.00	GROMMET, SILICONE, BLANK
61	1	1023.00349.00	HOT WATER INSERT, NO FAUCET
62	1	1029.00042.00	BYPASS L-TUBE, SILICONE, 2200 SINGLE SERIES
63	1	1023.00344.00	PLUG INSERT, QUICK CONNECT
64	1	1102.00445.00	ASSY, BREW BASKET LOCKER W/FEEDBACK
65	1	1003.00259.00	BRACKET, BREW BASKET LOCK COVER
66	3	1083.00009.00	WASHER, #6 SCREW , INTL TOOTH LOCKWASHER
67	1	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
68	3	1073.00016.00	LEG, THERMOPLASTIC, 2.50"(63mm)
69	3	1073.00019.00	LEG, 3/8-16 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 70	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 70	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



1	f Qty		Description Drawing 1101.00564.00 CBS-2231NGContinued from page 20
1	1	1086.00004.00	BUSHING, SNAP, 1" MOUNTING HOLE
1	1	1102.00243.00	ADAPTER ASSY, 3/4" BSP x 1/4" NPT x 3/8" TUBE
1	2	1065.00009.00	GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM
11		1044.00012.00	
1			NUT. CLIP ON (J-NUT), #6-32, 22-20 GA., BLK-PH FINISH
26 1 1086.00009.00 CLAMP, 3/4" MAX TUBE OD FLOW CONTROL 77 4 1086.00003.00 UNICLAMP, 15.9 HOSE OD CLAMP 28 1 1112.00530.00 UNICLAMP, 15.9 HOSE OD CLAMP 29 1 1023.00355.00 LOCATOR, DISPENSER, CBS-2230 30 1 1023.00355.00 LOCATOR, DISPENSER, CBS-2230 31 1 1001.00413.00 COVER TOP, CBS-2231/41 32 1 1001.00414.00 COVER, UPPER BASE, CBS-2231/41 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-2240/55-NG, LOW AMP, UNIVERSAL 36 1 1063.00042.00 ETHERNET CABLE, CAT-7, SFT LENGTH 37 1 1046.0003.00 LABEL, CSD WARNING, 1.5" X 5.0" 38 1 1041.00032.00 SLACK EXTRACTOR NG LABEL, LASER ENGRAVED 39 1 See Drawing 40 1 1402.00193.01 HARNESS HIGH AMP, CBS-2231/41/51, UL 41 1 B0142/18BN2BK BREW BASKET ASSY, BLACK, 13" X 5", 218" DIA HOLE, BROWN PLUG 42 1 B003218B1 BREW BASKET ASSY, BLACK, 13" X 5", 218" DIA HOLE, BROWN PLUG 43 1 1023.00348.00 HOT WATER INSERT, MANUAL FAUGET 44 1 1023.00348.00 HOT WATER INSERT, MANUAL FAUGET 45 1 1023.00348.00 HOT WATER INSERT, MANUAL FAUGET 46 1 1071.00055.00 FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM 47 1 1084.00048.00 JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS 48 1 1023.00348.00 HOT WATER INSERT, AUTO FAUCET 49 1 1023.00348.00 HOT WATER INSERT, UTO FAUCET 51 1 1023.00349.00 HOT WATER INSERT, AUTO FAUCET 51 1 1023.00349.00 HOT WATER INSERT, AUTO FAUCET 52 1 1023.00349.00 HOT WATER INSERT, AUTO FAUCET 53 2 1023.00349.00 HOT WATER INSERT, AUTO FAUCET 54 1 1024.00031.00 GROWNET, SILICONE, SILICONE 55 2 1025.00389.00 TUBE, 9/16"0D X 5/16"ID X 13.00"LG 56 1 1025.00349.00 HOT WATER INSERT, AUTO FAUCET 56 1 1023.00349.00 HOT WATER INSERT, AUTO FAUCET 57 1 1024.00051.00 GROWNET, SILICONE, BLANK 58 1 1023.00349.00 HOT WATER INSERT, OUTO FAUCET 57 1 1024.00051.00 GROWNET, SILICONE, SILICONE, SILICONE 58 1 1025.00349.00 HOT WATER INSERT, OUT FAUCET 58 1 1025.00349.00 HOT WATER INSERT, OUT FAUCET 59 1 1025.000340.00 HOT WATER INSERT, OUT FAUCET	1		
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11 1082.00017.00 SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG.			
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1 See Drawing TANK ASSEMBLY, CBS-2231			
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1 1024,00111.00 1024,00111.00 GROMMET, SILICONE, W/ POSITION TABS 1 1023,00362.00 FITTING VENT, ELBOW, .375" X.375", SELF POSITIONING 1 1023,00348.00 HOT WATER INSERT, MANUAL FAUCET 1 1084,00048.00 JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS 1 1003,00370.00 HOT WATER INSERT, MANUAL FAUCET 1 1084,00048.00 JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS 1 1003,00370.00 HOT WATER INSERT LOCK 1 1025,00120.00 TUBE, 9/16"OD X 5/16"ID X 13.00"LG 1 1023,00346.00 HOT WATER INSERT, AUTO FAUCET 1 1029,00041.00 COVER, AUTO HOT WATER FAUCET, SILICONE 2 1023,00347.00 VALVE MOUNT, HOT WATER DISPENSER 3 2 1023,00349.00 ORIFICE INSERT, QUICK CONNECT, 3/16" HOLE 4 2 1057,00076.00 VALVE ASSEMBLY, COMPLETE, NG, DELTROL 55 2 1025,00138.00 TUBE, SILICONE, 3/4" OD X 1/2" ID X 1-1/2" LG, HOT WATER 56 1 1025,00135.00 TUBE, 1/2"OD X 1/4"ID X .75" LG, RESTRICTOR 57 1 1024,00051.00 GROMMET, SILICONE, BLANK 58 1 1023,00349.00 HOT WATER INSERT, NO FAUCET 59 1 1025,00026.00 TUBE, 1/4"OD X 1/8"ID X 30"LG, VENT, HOT WATER VAPOR 60 1 1023,00344.00 PLUG INSERT, QUICK CONNECT 62 1 1102,00445.00 BYPASS L-TUBE, SILICONE, 2200 SINGLE SERIES 61 1 1023,00344.00 PLUG INSERT, QUICK CONNECT 62 1 1102,00445.00 ASSY, BREW BASKET LOCK COVER 64 4 1033,0009.00 WASHER, #8 SCREW, INTL TOOTH LOCKWASHER 65 2 1084,00010.00 NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED 66 4 1073,00016.00 LEG, THERMOPLASTIC, 2.50"(63mm) 67 4 1073,00016.00 LEG, THERMOPLASTIC, 2.50"(63mm) 68 1 1008,000348.00 ADAPTER PLATE, CBS-1130-XV+, STRAIN RELIEF, CE 1 1044,00013.00 LABEL EQUIPOTENTIALITY, CE 2 1084,00012.00 BUSHING, STRAIN RELIEF, 360"-430" DIA CABLE 1 1044,00013.00 LABEL EQUIPOTENTIALITY, CE 2 1084,00012.00 RUT, HEX, #6-32 MACHINE SCREW			
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59 1 1025.00026.00 TUBE, 1/4"OD X 1/8"ID X 30"LG, VENT, HOT WATER VAPOR 60 1 1029.00042.00 BYPASS L-TUBE, SILICONE, 2200 SINGLE SERIES 61 1 1023.00344.00 PLUG INSERT, QUICK CONNECT 62 1 1102.00445.00 ASSY, BREW BASKET LOCKER W/FEEDBACK 63 1 1003.00259.00 BRACKET, BREW BASKET LOCK COVER 64 4 1083.00009.00 WASHER, #6 SCREW, INTL TOOTH LOCKWASHER 65 2 1084.00010.00 NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED 66 4 1073.00016.00 LEG, THERMOPLASTIC, 2.50"(63mm) 67 4 1073.00019.00 LEG, 3/8-16 THREAD x 1" LG., GRAY 68 1 1086.0008.00 CONNECTOR, CLAMP, NON-METALLIC CABLE, 3/4" 69 1 1003.00348.00 ADAPTER PLATE, CBS-1130-XV+, STRAIN RELIEF, CE 70 1 1086.00029.00 BUSHING, STRAIN RELIEF, .360"430" DIA CABLE 71 1 1044.00013.00 LABEL EQUIPOTENTIALITY, CE 72 1 1052.00029.00 EMI FILTER, TWO LINE 20A, 120/250VAC 7		1024.00051.00	GROMMET, SILICONE, BLANK
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71			
72			
73 2 1084.00012.00 NUT, HEX, #6-32 MACHINE SCREW			
74 1 1063.00016.00 POWER CORD, 120VAC W/NEMA 5-15P PLUG			
· ·			
76 1 1063.00032.00 CORD, POWER, NEMA 6-15P, 15A/250V, W/O TERMINALS			
77 1 1402.00039.11 HARNESS ADDITION, HIGH AMP, CBS-2231/41/51, UL			
78 1 1402.00121.10 WIRE HARNESS ADDITION, HIGH AMP, EMI FILTER, 2-POLE, CE			
79 1 1025.00142.00 TUBE, SILICONE, 3/4" OD X 1/2" ID X 3.75" LG, BREW	1	1025.00142.00	TUBE, SILICONE, 3/4" OD X 1/2" ID X 3.75" LG, BREW

CBS-2231 Tank Assembly-single heater



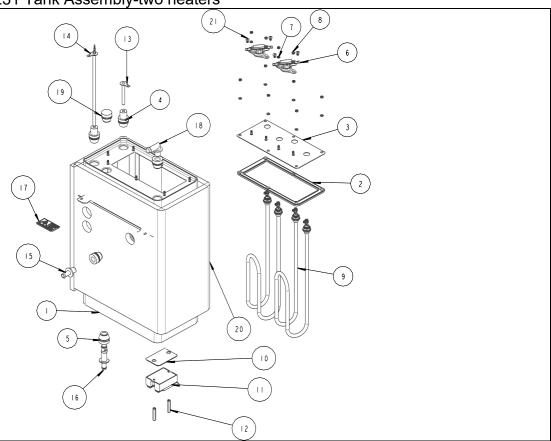
TANK ASSY, CBS-2231 Single Heater
Drawing number 1104.000169.00, 1104.000170.00, 1104.000172.00, 1104.000174.00, 1104.000175.00

REF	QTY	Part number	Description
1	1	1114.00168.001	WELDMENT, TANK, CBS-2231
2	1	1024.00114.00	TANK GASKET - NG HEATER PLATE, TWO ELEMENT
3	1	1114.00184.00	WELDMENT TANK HEATER BRACKET, NG-2231, SINGLE
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	1107.00021.00	HEATER ASSEMBLY, IMMERSION 1500W/120VAC
9	1	1107.00020.00	HEATER ASSEMBLY, IMMERSION 2300W/240VAC
9	1	1107.00019.00	HEATER ASSEMBLY, IMMERSION 2300W/120VAC
9	1	1107.00018.00	HEATER ASSEMBLY, IMMERSION 3000W/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	1112.00002.00	PROBE WELDMENT, WATER LEVEL 2.25" LG
14	1	1102.00161.00	PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG
15	1	1023.00168.00	FITTING, STRAIGHT, GROMMET, .400"
16	1	1023.00166.00	FITTING, COLD WATER INLET, GROMMET DESIGN
17	1	1044.00004.00	LABEL, DANGER, HIGH VOLTAGE
18	1	1023.00212.00	FITTING, ELBOW, GROMMET, .500"
19	1	1024.00051.00	GROMMET, SILICONE, BLANK
20	1	1022.00114.00	TANK INSULATION, CBS-2231
21	2	1082.00136.00	BRASS SCREW, #8-32 X 1/4", PHILLIPS PAN HEAD

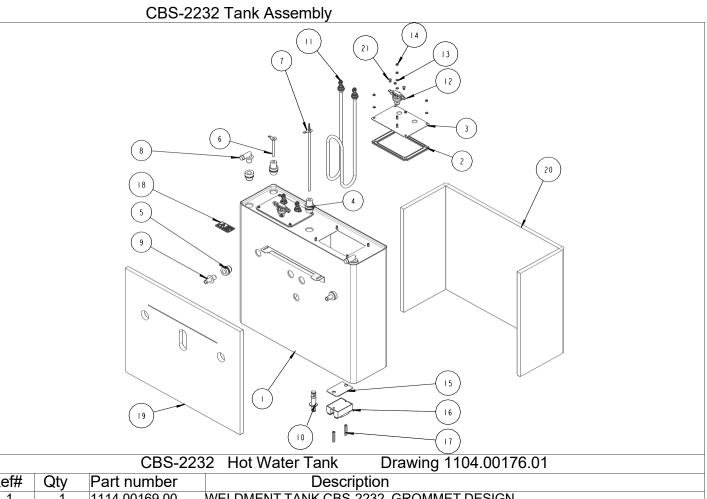
Table of authorities for CBS-2231NG replacement hot water tank module-tank is sold complete with insulation

SKU Number. See page 3 for list	Description	Tank Part Number
E2231US-1A115-PA011	TANK , CBS-2231, 1 X 1.5KW/120VAC	1104.00169.00
E2231US-1A123-PA012	TANK , CBS-2231, 1 X 2.3KW/120VAC	1104.00172.00
E2231CE-1B123-PA015	TANK , CBS-2231, 1 X 2.3KW/240VAC	1104.00174.00
E2231NM-1B130-PA013; E2231CE-1B130-PA015	TANK , CBS-2231, 1 X 3.0KW/240VAC	1104.00175.00

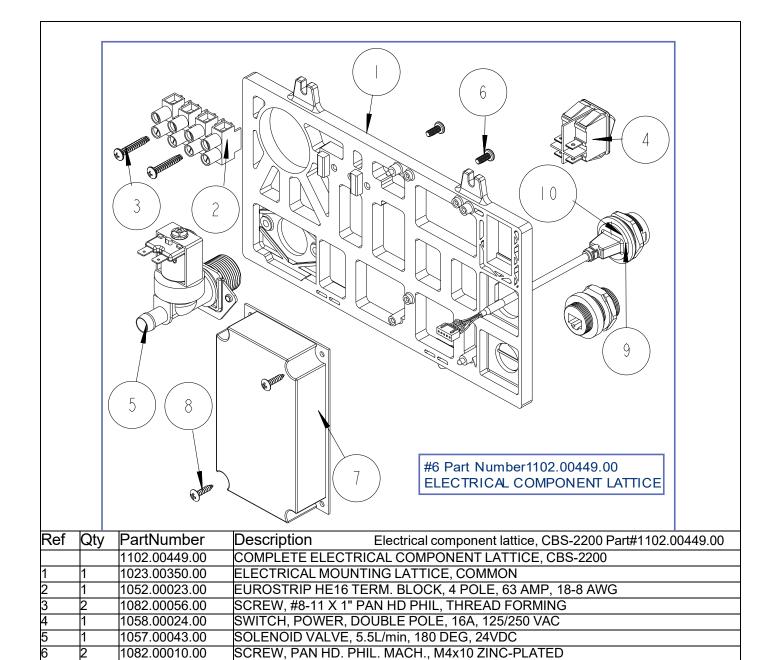
CBS-2231 Tank Assembly-two heaters



TANK ASSY, CBS-2231 Two Heater Drawing number 1104.000171.00, 1104.000173.00					
REF	QTY		Description		
1	1	1114.00168.00	WELDMENT, TANK, CBS-2231		
2	1	1024.00114.00	TANK GASKET - NG HEATER PLATE, TWO ELEMENT		
3	1	1114.00176.00	WELDMENT TANK HEATER BRACKET, NG-2231		
4	2	1024.00053.00	LEVEL AND TEMP PROBE GROMMET		
5	3	1024.00050.00	GROMMET, SILICONE, 11.4mm ID		
6	2	1053.00052.00	THERMOSTAT, SINGLE SHOT, SCREW CONNECTIONS, 240V/25A		
7	10	1083.00009.00	WASHER, #6 SCREW , INTL TOOTH LOCKWASHER		
8	10	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED		
9	2	1107.00022.00	HEATER ASSEMBLY, IMMERSION 1700W/120VAC		
9	2	1107.00019.00	HEATER ASSEMBLY, IMMERSION 2300W/120VAC		
10	2	1003.00140.00	ALUMINUM BRACKET FOR SSR		
11	2	1052.00033.00	RELAY, SOLID STATE, 50A/480VAC, W/BUILD IN VARISTOR		
12	4	1081.00042.00	STANDOFF, 1/4" HEX		
13	1	1112.00002.00	PROBE WELDMENT, WATER LEVEL 2.25" LG		
14	1	1102.00161.00	PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG		
15	1	1023.00168.00	FITTING, STRAIGHT, GROMMET, .400"		
16	1	1023.00166.00	FITTING, COLD WATER INLET, GROMMET DESIGN		
17	1	1044.00004.00	LABEL, DANGER, HIGH VOLTAGE		
18	1	1023.00212.00	FITTING, ELBOW, GROMMET, .500"		
19	1	1024.00051.00	GROMMET, SILICONE, BLANK		
20	1	1022.00114.00	TANK INSULATION, CBS-2231		
21 4 1082.00136.00 BRASS SCREW, #8-32 X 1/4", PHILLIPS PAN HEAD					
Table of authorities for CBS-2231NG replacement hot water tank module-tank is sold complete with insulation					
SKU Number. See page 3 for list Description Part Number					
E2231NM-1X123-PA012, E2231NM-1A123-PA012					
E2231US-1X117-PA011 TANK CBS-2231, 2 X 1.7KW/120VAC 1104.00171.00					



CBS-2232 Hot Water Tank Drawing 1104.00176.01					
			32 Hot water		.01
Ref# Qty Part number				Description	
1	1	1114.00169.00		NK CBS-2232, GROMMET DESIGN	
2	2	1024.00115.00		- NG HEATER PLATE, ONE ELEMEN	Т
3	2	1114.00181.00	WELDMENT TA	NK HEATER BRACKET, NG-2232	
4	2	1024.00053.00	LEVEL AND TE	MP PROBE GROMMET	
5	5	1024.00050.00		ICONE, 11.4mm ID	
6	1	1112.00002.00		MENT, WATER LEVEL 2.25" LG	
7	1	1102.00161.00		BLY, TEMP. AND LLC, 8" LONG	
8	2	1023.00212.00		W, GROMMET, .500"	
9	2	1023.00168.00		IGHT, GROMMET, .400"	
10	1	1023.00166.00	,	WATER INLET, GROMMET DESIGN	
11	2	1107.00019.00		MBLY, IMMERSION 2300W/120VAC	
11	2	1107.00018.00		MBLY, IMMERSION 3kW/240VAC	
11	2	1107.00040.00		MBLY, IMMERSION 4kW/240VAC	
12	2	1053.00052.00	THERMOSTAT,	SINGLE SHOT, SCREW CONNECTION	DNS, 240V/25A,
13	12	1083.00009.00		CREW , INTL TOOTH LOCKWASHER	
14	12	1084.00010.00		2, UNDERSIZED, ZINC PLATED	
15	2	1003.00140.00		ACKET FOR SSR	
16	2	1052.00033.00	RELAY, SOLID	STATE, 50A/480VAC, W/BUILD IN VA	RISTOR
17	4	1081.00042.00	STANDOFF, 1/4		
18	1	1044.00004.00	,	R, HIGH VOLTAGE	
19	1	1022.00113.00		ION, CBS-2232 FRONT	
20	1	1022.00116.00		ION, CBS-2232 BACK	
21	4	1082.00136.00		/, #8-32 X 1/4", PHILLIPS PAN HEAD	
Table of authorities for CBS-2232NG replacement hot water tank module-tank is sold complete with insulation					
SKU Number. See page 3 for list				Description	Tank Part Number
E2232US-1B223-PA010, E2232US-1B223-MA110,				TANK CDC 2222 2 V 2 2K/M/240VAC	1104.00176.00
E2232IN-1B223-PA010, E2232CE-1B223-PA010				TANK CBS-2232, 2 X 2.3KW/240VAC	1104.00170.00
E2232US-1B230-MA110, E2232US-1B230-PA010,					
E2232US-1B230-PA110, E2232IN-1B230-PA010,				TANK CBS-2232, 2 X 3.0KW/240VAC 1104.00177.00	1104 00177 00
E2232IN-1B230-MA110, E2232NM-1B230-PA010					1104.00177.00
E2232CE-1B230-PA010					



POWER SUPPLY, 90-264VAC/24VDC, 2.25A

USB CONNECTOR

SCREW, #6 X 5/8, TRUSS HD PHIL, SHEET MTL

ETHERNET PLUG IN CONNECTOR, W/COVER

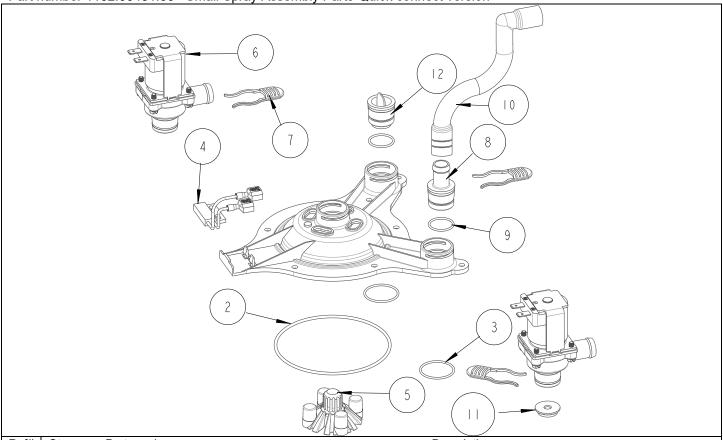
1052.00059.00

1082.00020.00 1058.00055.00

1058.00162.00

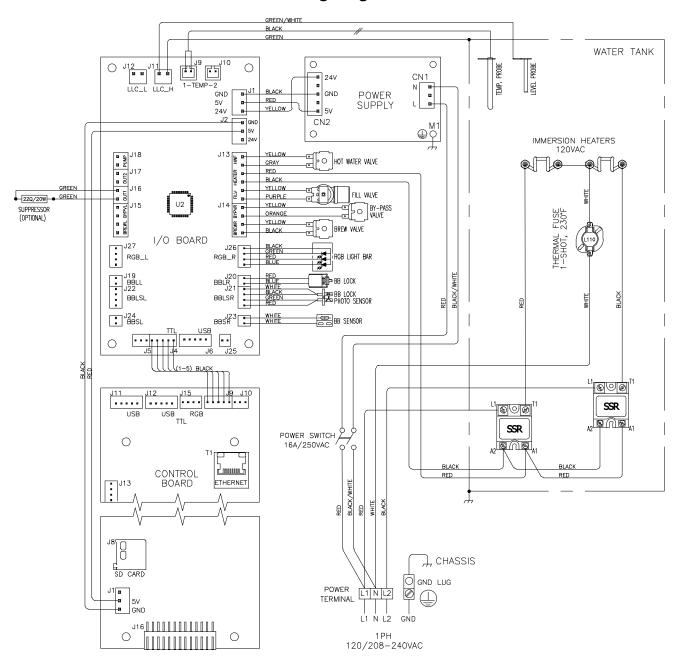
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Part number 1102.00451.00 Small Spray Assembly Parts-Quick connect version



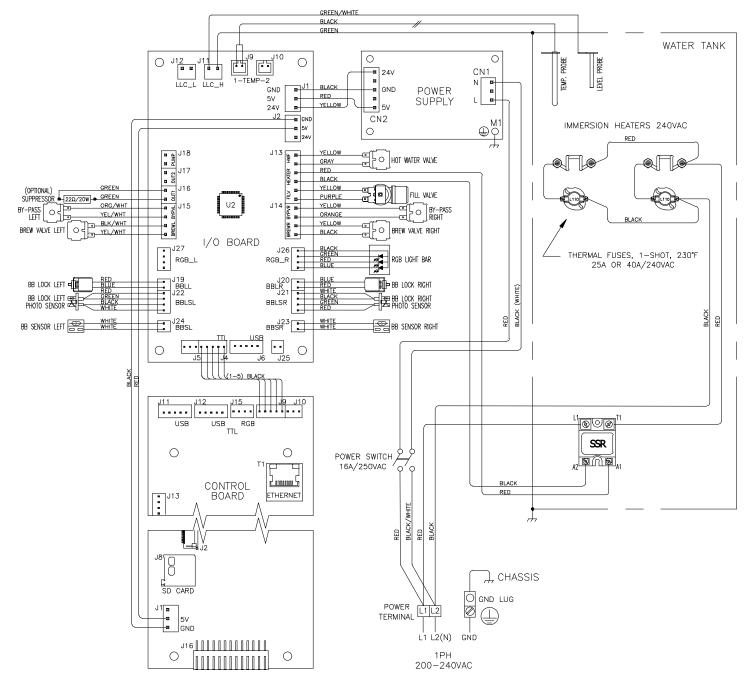
Ref#	Qty	Part number	Description
1	1	1000.00143.00	SPRAY HEAD BASE (KIT), QUICK CONNECT, 30/40'S
2	1	1024.00063.00	O-RING, 3 15/16" x 3/32" CS, DASH # 154, BUNA-N, DURO-A50
3	2	1024.00107.00	O-RING, 1 3/16" OD X 1 1/16" ID X 1/16" TH, BYPASS SEAL
4	1	1102.00113.00	SWITCH, REED, ASSEMBLY
5	1	1102.00479.00	ASSEMBLY, CASCADE SPRAY DOME, NEXT GEN, ORANGE
6	2	1057.00076.00	VALVE ASSEMBLY, COMPLETE, NG, DELTROL (interchangeable with 1057.00078.00)
6	2	1057.00078.00	VALVE ASSEMBLY, COMPLETE, NG, RPE (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

Wiring Diagrams



Wiring diagram 1401.00178.10 for the following SKU numbers-see page 3

E2231US-1X117-PA011 DUAL VOLT,	1Ph, 2+G/3+G, 2x1.7xW/120VAC, 120/208-240VAC,
E2231US-1A115-PA011 SINGLE VOLT	1Ph, 2+G, 1.5xW/120VAC
E2231US-1A123-PA012 SINGLE VOLT	1Ph, 2+G, 2.3xW/120VAC
E2231NM-1X123-PA012,NOM,DUAL VOLT,	1Ph, 2+G/3+G, 2x2.3xW/120VAC, 120/208-240VAC,
E2231NM-1A123-PA012,NOM, SINGLE VOLT	1Ph, 2+G, 2.3xW/120VAC
E2231NM-1B130-PA013, NOM, SINGLE VOLT	1Ph, 2+G, 3.0xW/240VAC
E2231IN-1B123-PA010 INTL, SINGLE VOLT	1Ph, 2+G, 2.3xW/240VAC
E2231IN-1B130-PA010 INTL, SINGLE VOLT	1Ph, 2+G, 3.0xW/240VAC



Wiring diagram for the following SKU numbers-see page 3

E2232US-1B223-PA010	CBS-2232, 1Ph, 2+G, 2x2.3kW/240VAC	Terminal Block
E2232US-1B230-MA110	CBS-2232, 1Ph, 2+G, 2x3kW/240VAC,	Terminal Block
E2232US-1B230-PA010	CBS-2232, 1Ph, 2+G, 2x3kW/240VAC,	Terminal Block
E2232US-1B230-PA110	CBS-2232, 1Ph, 2+G, 2x3kW/240VAC,	Terminal Block
E2232US-1B223-MA110	CBS-2232, 1Ph, 2+G, 2x2.3kW/240VAC,	Terminal Block
E2232IN-1B223-PA010	CBS-2232, INTL, 1Ph, 2+G, 2x2.3kW/240VAC,	Terminal Block
E2232IN-1B230-PA010	CBS-2232, INTL, 1Ph, 2+G, 2x3kW/240VAC,	Terminal Block
E2232IN-1B230-MA110	CBS-2232, INTL 1Ph, 2+G, 2x3kW/240VAC,	Terminal Block
E2232NM-1B230-PA010	CBS-2232, NOM, 1Ph, 2+G, 2x3kW/240VAC, ,	Terminal Block