FETCO[®] User's Guide and Operator Instructions

CBS-1251; CBS-1252 and CBS-1253 Extractor Plus Brewing System FETCO PLUS® Commercial Beverage Equipment



CBS-1251 & CBS-1252 11/2 gallon brewer with FETCO 11/2 Gallon L4D dispensers (sold separately) CBS-2153 2 gallon Extractor Plus Brewers



CONTACT INFORMATION

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P213 REV. 001 Feburary 2023

Coffee Brewer: CBS-1250 series

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Specifications and Requirements

Water Requirements:

CBS-1251; CBS1252 &1253: 20-75 psig, (138-517kPa) 1½gpm/(5.7lpm)

Water inlet fitting is a 3/8 inch male flare. Brewer supplied with inlet valve adaptor for BSP to SAE

CBS-2151 and CBS-2152 Brew Volume: First Batch 1½ gallons/ 6 liters

Second Batch 1 gallon/ 3.8 liters

CBS-2153 -2 gallon Brew Volume: First Batch 2 gallons/ 7.6 liters Second Batch 1 gallon/ 3.8 liters

Total Brew Cycle—Factory Default Settings

CBS-2151 1¹/₂ gal Factory default setting

First batch 1½ gal: 6:30 minutes=[5 minute brew time + 1.30 minute drip delay] + 10% Bypass Second batch-1 gallon: 5:30 minutes=[4 minute brew time + 1.30 minute drip delay] + 0% Bypass

CBS-2152 1¹/₂ gal Factory default setting:

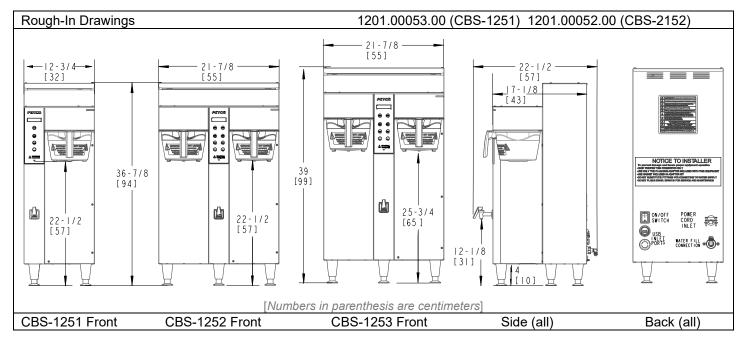
First batch 1½ gal: 6:30 minutes=[5 minute brew time + 1.30 minute drip delay] + 15% Bypass Second batch-1 gallon: 5:30 minutes=[4 minute brew time + 1.30 minute drip delay] + 0% Bypass

CBS-2153-2 gallon Factory default setting:

First batch 2 gal: 6:30 minutes=[5 minute brew time + 1.30 minute drip delay] + 15% Bypass Second batch-1 gallon: 5:30 minutes=[4 minute brew time + 1.30 minute drip delay] + 0% Bypass **Brew-Process parameters are user controllable for:**

Brew Volume, Brew Time, Prewet Percent, Bypass, Prewet Delay, and Drip Delay

Weights and	l Capacities									
Model	Height	Width	Depth	Water tank	Empty	Filled	Shipping	Shipping		
Widden	ricigitt	Width	Deptil	capacity	Weight	Weight	Weight	Dimensions		
CBS-1251	36 7/8 in	12 3/4 in	22 1/2 in	6.5 gallon	53 lbs	107 lbs	63 lbs	38" x 18" x 24"		
1½ gal	940 mm	320 mm	570 mm	24.4 L	24 kg	48.3kg	28.6 kg	96.5 x 45.7 x 61 cm		
CBS-1252	36 7/8 in	21 7/8 in	22 1/2 in	11.1 gallon	77 lbs	174 lbs	97 lbs	38" x 24" x 27"		
1½ gal	940 mm	550 mm	570 mm	42.1 L	35.0 kg	78.9 kg	44 kg	96.5 x 61 x 68.6 cm		
CBS-1253	39 in	21 7/8 in	22 1/2 in	11.1 gallon	82 lbs	180 lbs	97 lbs	40" x 24" x 27"		
2 gal	99.1 mm	550 mm	570 mm	42.1 L	37.2 kg	81.6 kg	44 kg	102 x 61 x 68.6 cm		
CBS-1251 8	CBS-1252	CBS-1253	3	Filter Paper	all models	Brower	Brewers ship with plastic brew baskets.			
•	Calibrated for Calibrated for		15" X 5 ½ "-	- standard		See page 25 for optional brew baskets				
1½ gallons/	6 liters	2 gallons/	8 liters	Or use FETCO # F001						



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User Guide & Operator instructions P213 REV001 FEBURARY 2023

Electrical:

See electrical configuration chart on page three. CBS-1250 series brewers use a terminal block for electrical connection

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

Water supply: (Optimal) 100-150TDS All beverage equipment must use filtered water.

Electrical Configurations

CBS-1251PLUS Single 1½ Gallon-6 Liter Coffee Brewers Domestic and International models Electrical and Output Specifications All brewers have terminal block electrical utility connection 50Hz or 60Hz

Electrical and Sulpar S	poolinoutiono	/ 11 01 01 010	nave ten		on oroouriour c	2001000	
Configuration Codes	Heater Configuration	Voltage	Phase	Wires	KW	Amp Draw	Brew-Volume/Hour
E1251US-1B230-PM110	2 X 3.0 kW	208-240	1	2+G	4.5-6.0	22.2-25.5	15.0 gal/57 liters
E1251US-1B230-MM110	2 X 3.0 kW	208-240	1	2+G	4.5-6.0	22.2-25.5	15.0 gal/57 liters
E1251IN-1B140-PM110	1 X 4.0 kW	200-240	1	2+G	2.8-4.0	14.4-17.2	10.6 gal/40.3 liters
E1251IN-1B150-PM110	1 X 5.0 kW	200-240	1	2+G	3.5-5.0	17.9-21.3	13.3 gal/50.4liters
E1251IN-1B230-PM110	2 X 3.0 kW	200-240	1	2+G	4.2-6.0	21.3-25.5	15.0 gal/57 liters

CBS-1251 <i>PLUS</i> Single 1½ Gallon-6 Liter Coffee Brewers International models Electrical and Output Specifications All brewers have terminal block electrical utility connection 50Hz or 60Hz										
Configuration Codes	Heater Configuration	Voltage	Phase	Wires	KW	Amp Draw	Brew-Volume/Hour			
E1251NM-1B230-PM110	2 X 3.0 kW	208-240	1	2+G	4.2-6.0	21.3-25.5	15.0 gal/57 liters			
E1251KS-1B230-MM110	2 X 3.0 kW	220	1	2+G	5.2	23.4	13.0 gal/49 liters			
E1251CE-1B230-PM110	2 X 3.0 kW	230/400	1	2L/N/PE	5.6	12.5	14.9 gal/ 56.4 liters			
E1251CE-1B230-PM110	2 X 3.0 kW	230	1	L/N/PE	5.6	24.5	14.9 gal/ 56.4 liters			

CBS-1252PLUS Twin 1 ¹ / ₂ Gallon-6 Liter Coffee Brewers Field configurable Domestic										
Electrical and Output Specifications All brewers have terminal block electrical utility connection 50Hz or 60Hz										
Configuration Codes	Heater Configuration	Voltage	Phase	Wires	KW	Amp Draw	Brew-Volume/Hour			
E1252US-UB230-PM110	2 X 3.0 kW	208-240	1	2+G	4.5-6.0	22.2-25.5	15.9 gal/60.4 liters			
Selectable (1 or 3 phase) Sold as 3 phase	3 X 3.0 kW	208-240	3	3+G	6.8-9.0	19.3-22.2	23.9 gal/90.6 liters			
E1252US-UB250-PM110	2 X 5.0 kW	208-240	1	2+G	7.6-10.0	36.6-42.2	25.3 gal/97 liters			
Selectable (1 or 3 phase) Sold as 3 phase	3 X 5.0 kW	208-240	3	3+G	11.3-15.0	31.8-36.6	30.0 gal/114 liters			

CBS-1252PLUS Twin 1½ Gallon-6 Liter Coffee Brewers Domestic and International models Electrical and Output Specifications All brewers have terminal block electrical utility connection 50Hz or 60Hz									
Configuration Codes Heater Configuration Voltage Phase Wires KW Amp Draw Brew-Volume/Hour									
E1252IN-1B230-PM110	2 X 3.0 kW	200-240	1	2+G	4.2-6.0	21.3-25.5	15.9 gal/60.4 liters		
E1252IN-1B250-PM110	2 X 5.0 kW	200-240	1	2+G	7.0-10.0	35.2-42.2	26.6gal/100.7liters		

CBS-1252PLUS Twin 1 ¹ / ₂ Gallon-6 Liter Coffee Brewers International models Electrical and Output Specifications All brewers have terminal block electrical utility connection 50Hz or 60Hz										
Configuration Codes	Heater Configuration	Voltage	Phase	Wires	KW	Amp Draw	Brew-Volume/Hour			
E1252IN-3B330-PM110	3 X 3.0 kW	220/380 240/415	3	4+G	7.6-9.0	12.0-12.9	23.9 gal/90.6 liters			
E1252IN-3B340-PM110	3 X 4.0 kW	220/380 240/415	3	4+G	10.1-12.0	15.8-17.2	30.0 gal/114 liters			
E1252IN-3B350-PM110	3 X 5.0 kW	220/380 240/415	3	4+G	12.6-15.0	19.6-21.3	30.0 gal/114 liters			
E1252CE-3B330-PM110	3 X 3.0 kW	230/400	3	3L/N/PE	8.3	12.5	22.1gal/83.6 liters			
E1252CE-3B350-PM110	3 X 5.0 kW	230/400	3	3L/N/PE	13.8	20.5	30.0 gal/114 liters			

CBS-1252PLUS Twin 1 ¹ / ₂ Gallon-6 Liter Coffee Brewers Field configurable International									
Electrical and Output Specifications All brewers have terminal block electrical utility connection 50Hz or 60Hz									
Configuration Codes	Heater Configuration	Voltage	Phase	Wires	KW	Amp Draw	Brew-Volume/Hour		
E1252NM-UB250-PM110	2 X 5.0 kW	208-240	1	2+G	7.6-10.0	36.6-42.2	26.6 gal/101 liters		
Selectable (1 or 3 phase) Sold as 3 phase	3 X 5.0 kW	208-240	3	3+G	11.3-15.0	31.8-36.6	30.0 gal/114 liters		

CBS-1253PLUS Twin 2 Gallon-8 Liter Coffee Brewers continued on following page

	CBS-1253PLUS Twin 2 Gallon-8 Liter Coffee Brewers Field configurable Domestic Electrical and Output Specifications All brewers have terminal block electrical utility connection 50Hz or 60Hz								
Configuration Codes	Heater Configuration	Voltage	Phase	Wires	KW	Amp Draw	Brew-Volume/Hour		
E1253US-UB230-PM110	2 X 3.0 kW	208-240	1	2+G	4.5-6.0	22.2-25.5	15.9 gal/60.4liters		
Selectable (1 or 3 phase) Sold as 3 phase	3 X 3.0 kW	208-240	3	3+G	6.8-9.0	19.3-22.2	23.9 gal/90.6liters		
E1253US-UB250-PM110 Selectable (1 or 3 phase)	2 X 5.0 kW	208-240	1	2+G	7.6-10.0	36.6-42.2	25.3 gal/97 liters		
Sold as 3 phase	3 X 5.0 kW	208-240	3	3+G	11.3-15.0	31.8-36.6	30.0 gal/114 liters		

CBS-1253PLUS Twin 2 Gallon-8 Liter Coffee Brewers Domestic and International models Electrical and Output Specifications All brewers have terminal block electrical utility connection 50Hz or 60Hz

configuration Codes	Heater Configuration	Voltage	Phase	Wires	KW	Amp Draw	Brew-Volume/Hour
E1253US-1B230-PM110	2 X 3.0 kW	200-240	1	2+G	4.2-6.0	21.3-25.5	15.9 gal/60.4 liters
E1253US-1B250-PM110	2 X 5.0 kW	200-240	1	2+G	7.0-10.0	35.2-42.2	26.6gal/100.7liters
E1253IN-1B230-PM110	2 X 3.0 kW	200-240	1	2+G	4.2-6.0	21.3-25.5	15.9 gal/60.4 liters
E1253IN-1B250-PM110	2 X 5.0 kW	200-240	1	2+G	7.0-10.0	35.2-42.2	26.6gal/100.7liters

CBS-1253PLUS Twin 2 Gallon-8 Liter Coffee Brewers International models Electrical and Output Specifications All brewers have terminal block electrical utility connection 50Hz or 60Hz										
Configuration Codes	Heater Configuration	Voltage	Phase	Wires	KW	Amp Draw	Brew-Volume/Hour			
E1253IN-3B330-PM110	3 X 3.0 kW	220/380 240/415	3	4+G	7.6-9.0	12.0-12.9	23.9 gal/90.6 liters			
E1253IN-3B340-PM110	3 X 4.0 kW	220/380 240/415	3	4+G	10.1-12.0	15.8-17.2	30.0 gal/114 liters			
E1253IN-3B350-PM110	3 X 5.0 kW	220/380 240/415	3	4+G	12.6-15.0	19.6-21.3	30.0 gal/114 liters			
E1253NM-1B250-PM110	2 X 5.0 kW	200-240	1	2+G	7.0-10.0	35.2-42.2	26.6gal/100.7liters			

CBS-1253PLUS Twin 2 Gallon-8 Liter Coffee Brewers Field configurable International							
Electrical and Output Specifications All brewers have terminal block electrical utility connection 50Hz or 60Hz							
Configuration Codes Heater Configuration Voltage Phase Wires KW Amp Draw Brew-Volume/I							Brew-Volume/Hour
E1253NM-UB250-PM110 Selectable (1 or 3 phase)	2 X 5.0 kW	208-240	1	2+G	7.6-10.0	36.6-42.2	25.3 gal/97 liters
Sold as 3 phase	3 X 5.0 kW	208-240	3	3+G	11.3-15.0	31.8-36.6	30.0 gal/114 liters

EXAMPLE	XAMPLE: SKU E1253US-UB230-PM110 SKU NUMBER IDENTIFICATION KEY															
Product Line	Le	evel	Fai	nily	<u>Regi</u>	on ID	Phase	Voltage Range	<u># Heaters</u>		vidual Wattage	<u>Brew</u> Basket	Hot Water Faucet	<u>Bypass</u>	Brew Basket Locks	Power Cord
E	1	2	5	3	U	S	U	В	2	5	0	Р	М	01	1	0
E=extractor					-	United Ites	1	A = 100-120	1		1.5	P=plastic	M=manual	1=Yes	1=Yes	0=Terminal Block
		PLUS eries	-	1= e side		= ational	2	B = 200-240	2		1.7	M=metal	A=automatic	0=no	0=no	1= NEMA 5-15P
			-	2= side	CE :	= CE	3	C = 380-415	3	:	2.3		N=None			2=NEMA 5-20P
					NM =	NOM	U = 1 or 3	D = 440-480			3.0					3=NEMA 6-15P
											4.0					4=NEMA 6-30P
			dual	3= side allon				X=120 or 240 Dual Voltage			5.0					5= CEE 7/7 Schuko
																6=UK1-13P
																7= AUSTRALIAN

Enter Programming

Screens shown are for twin brewer. Single brewer will not have menu A4-A6. There are seven menu groups-A-G. See the following pages for the batch parameter definitions and all settings for the brewer

TO ENTER PROGRAMMING

1-Turn brewer "OFF" from power switch 2-Turn power switch to "ON"

...Screen will initialize and then display digital process notifications

3-After Initialization-Red "STOP" Lamp turns on 4-Quickly press "STOP" button.

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

BATCH PRG

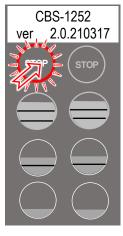
-Illuminated LED indicates active keypad positions

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

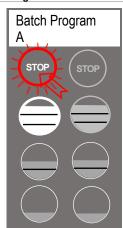
Note: Only the left side buttons of a two sided brewer are used for programming

Programing Menu Layout A10 to A70 B10-B40 C10-C50 D10-D90 E10-E70 F10-F120 G1-G15 H10-H11 General Settings Batch Parameters Service Outputs Counters Calibration Service Menu Exit and Save Service Inputs LLC Probe Brew Volume B1 Tank Temperature C1 Heater SSR Ready Temp. Offset Firmware Ver Filter Used Save Changes A12 Brew Time Brew at Temp Basket Sensor D2 Fill Valve LLC Sensitivity Bootloader Ver. G2 Filter Life EXIT? B4 Show Tank Temp C4 Tank Temperature D3 Lt Brew Valve E3 Slow Flow Compensate Filter Reset A13 Prewet Percent Select Model F3 G3 Rt Brew Valve A14 Prewet Delay Units of Temp USB Drive D4 F Lt Brew Flow **Option Bypass** Counter Reset Choose Counter A15 Bypass Percent Units of Volume C6 Keyboard Test D5 Lt Bypass Valve E5 Rt Brew Flow Option BB Lock G5 D6 Rt Bypass Valve E6 Backup to USB Lt Bypass Flow Brewer Volume [T] A16 Drip Delay B7 Customer Name F8 A20 Batch (2) Enabled B8 Customers Name D7 Lt Basket Lock Rt Bypass Flow Restore from USB Brewer Volume A21 Brew Volume R9 Demo Mode D8 Rt BasketLock F10 Restore Defaults LT Brews[T] D12 LCD Brightness % LT Brews A22 Brew Time F11 B10 Eco Mode Error Log G13 D13 LED Brightness % Prewet Percent B11 Eco Idle Time Erase Error Log Rt Brews [T] A23 F12 G14 Prewet Delay B12 Service Phone# G15 Rt Brews A24 Eco Idle Temp F13 A25 Bypass Percent B13 Water Filter Override Lt BBS See page 12 F14 Override Rt BBS Drip Delay A26 F15 A30 Batch (3) Enabled F16 Override Lt BBL F17 Override Rt BBL A90 Copy Batch A91 Copy Batch: From A92 PASTE: To Top and middle batches are permanent SEE BOX on the following page for all "A" menus

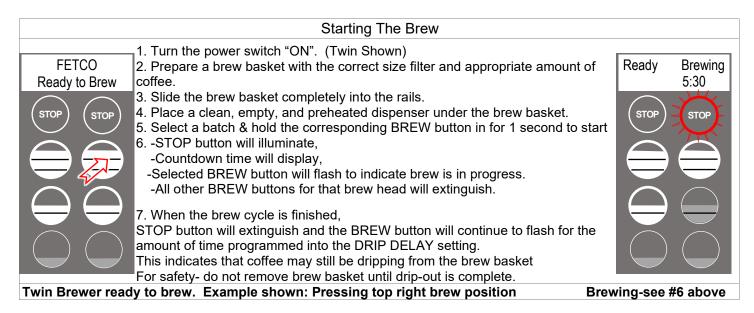
STOP BUTTON



Turn power OFF Turn power ON Wait for red LED And quickly press STOP button on front touch pane

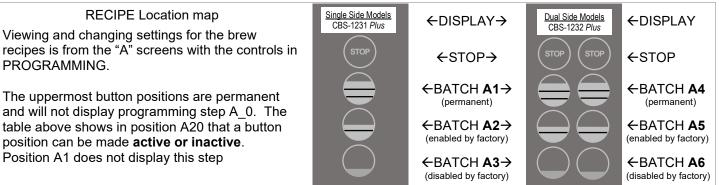


First screen will display for PROGRAMMING-A Scroll through main menu topics by pressing "STOP" button.



RECIPE Location map

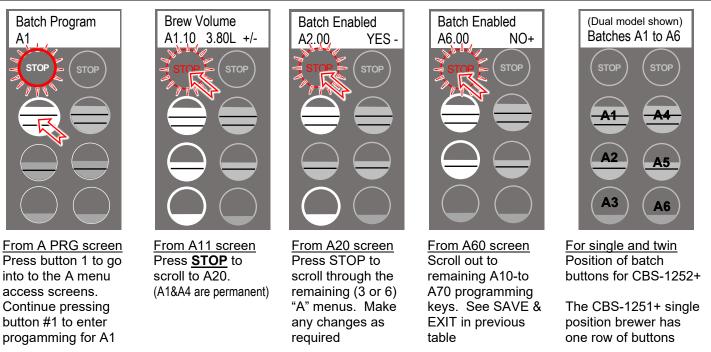
PROGRAMMING.



The "A" menu is the most accessed menu. It is for programming the batch volumes, brewing parameters, enabling or disabling brew buttons. The "A" menu moves through the six positions(CBS-1252-) or three positions(CBS-1251+) by entering the menu and pressing the left stop button. (only the left side is active for programming the CBS-1252+)

The A menus [A1-3 or A1-6] correspond to batch buttons [3 or 6] on the touch panel

Access the A menus to PROGRAM & make changes to individual menu recipes. Menu settings can be copied Menu positions A1 and A4 [top position] are permanent. Menus A2, A3, A5, A6 can be removed by operator if desired



	he settings below ar				
POSITION	Program Items		Programming Range		for default A1 & A2 batches Notes
FUSITION	Flogramitems				notes
A1.10	Batch Volume	1.5 gal 6.8 liters	0.51 to 2.00 gal 1.93 to 7.57L	0.01G 0.05L	
A1.10	Batch Volume CBS-2153 only	2 gallons 9.1 liters	0.51 to 2.66 gal 1.93 to 10.1L	0.01G 0.05L	
A1.20	Brew Time	5:00 minutes	2:00 - 12:00	0.30	Default total brew time is 6:30 minutes
A1.30	Prewet Perc.	0%	0.00 - 25.0%	1%	Percentage of total brew volume
A1.40	Prewet Delay	0% [1:00 Min]	[0:10 5:00]	1:00 min	The time between prewetting and start of brew cycle.
A1.40	(Pause after prewet completes)	0% [1:00 Min]	[0:10 – 5:00]	1.00 min	This feature appears ONLY if Prewet >0:00
A1.50	Bypass Percent	CBS-1251:10% CBS-1252/3:15%	0% – 40%	1%	Diverts brewing water from brew process
A1.60					Time that brew basket remains
This is a	Drip Delay	1:30 mm:ss	0:30 – 6:00 Min.		locked during final drip-out \rightarrow Drip delay remains "ON" for
Safety	Drip Delay	1.50 1111.55	0.50 - 0.00 Will.		1:30 minutes if STOP is
Feature					pressed during brew†
	BATCH	YES	Middle and Bottom	Batch	Batches may be individually
A2.00	ENABLED	(Active)	batches A2,3,5,6	on or off	enabled, rewritten or
					deactivated
A2.10	Batch Volume	1.5 gal 6.8 liters	0.51 to 2.00 gal 1.93 to 7.57L	0.01G 0.05L	
A2.10	Batch Volume	2 gallons	0.51 to 2.66 gal	0.01G	
	CBS-2153 only	9.1 liters	1.93 to 10.1L	0.05L	Default total brew time is 5:30
A2.20	Brew Time	4.00 minutes	2:00 – 12:00	0.30	minutes
A2.30	Prewet Perc.	0%	0.00 - 25.0%	1%	Percentage of total brew volume
A2.40	Prewet Delay (Brew pause after prewet completes)	0% [1:00 Min]	[0:10 – 5:00]	1:00 min	The time between prewetting and start of brew cycle. This feature appears ONLY if Prewet >0:00
A2.50	Bypass Percent	CBS-1251:0% CBS-1252&3: 0%	0% – 40%	1%	Diverts brewing water from brew process
A2.60					Time that brew basket remains
This is a Safety Feature	Drip Delay	1:30 mm:ss	0:30 – 6:00 Min.		locked during final drip-out →Drip delay remains "ON" for 1:30 minutes if STOP is pressed during brew†
A30	Batch Enabled A30 YES - NO +	NO-inactive (defaults to recipe A20 if activated)	Middle and Bottom batches A2,A3	Batch on or off	Batches may be individually enabled, rewritten or deactivated
A90 Batch Copy	Copy From Batch	A90	A90 1 (1-6)		
A91	Copy To Batch?	A91	A91.1 (1-6)		cycles per minute brew time

B General		Brewer Oper	ation Control Setting	s, Adjust Br	ew Flow Rate
POSITION	Program Items	Factory set Default	Programming Range	Increments	Notes
B1	Tank Temp.	200°F-or-93° C NOTE: Equipment is Fahrenheit by default	77° to 97°C 170°F to 207°F	0.5°C 1.0°F	Chart to correct for high altitude below
B2	Brew at Temp.	"YES"	ON/OFF	YES/NO	SEE NOTE BELOW
B4	Show Tank Temperature	YES	YES/NO		To display HW tank temperature on screen
B5	Units of Measure TEMPERATURE	F°-Fahrenheit	Fahrenheit/Celsius	C/F	<u>NOTE</u> : Overwrites user settings (see page 9)
B6	Units of Measure VOLUME	G-Gallons	Gallons/Liters/Ounces	Gal/L/Oz	NOTE: Overwrites user settings (see page 9)
B7	Customer Name	Off	NO or YES		For name on screen
B8	Customer Name	(only if above is "ON)	Scroll with batch keys	A-Z;a-z;0-9	16 characters total
B9	Demo Mode	DEMO ON/OFF			Demonstrates the controls for training. Disables all components in demo mode
B10	Eco Mode	On	ON/OFF	YES/NO	If Selected: Lowers hot water tank temperature after preset time of inactivity
B11	Eco Idle Time	1Hr	1-6 hours	1 hour	Time of inactivity to go into ECO Mode
B12	Eco Idle Temp	170°F	158-176°F	1 degree	Temperature that hot water tank is lowered to
B13	Water Filter	OFF	ON/OFF	YES/NO	Water filter life is accessed in G-Counters. This is user set and will display indicator to change water filter

BREW AT TEMPERATURE DEFINITIONS

DEFAULT: BREW AT TEMP: "ON"							
DEI AGET. BREW AT TEMP. ON							
(FACTORY DEFAULT FOR BREWER) "BREW at TEMP:	Hot water tank not at brew temp	Ξ					
-Batch will not start if tank temperature	setpoint.						
is below set point. -Display will show "HEATING" and hot water tank temperature	Tank temp→	HEATING 160°F					
The "BREW START" entry buttons will not illuminate until the hot water tank reaches the	STOP is not lit \rightarrow	STOP STOP					
selected temperature.	BREW START buttons not lit.						
Controls allow both sides of dual brewer to operate if one side has an ongoing brew	and are disabled.	$\bigcirc \bigcirc$					
started and the second side brew is selected.	When hot water						
Notifications shown on screen:	tank temperature						
TEXT: HEATING →Tank above 87°C/189°F-will							
allow brew at low temperature.	Buttons will						
Coffee flavor may be affected TEXT: L. HEAT \rightarrow Tank above 77°C/170°F-	illuminate and						
	"READY" will be						
will allow brew at low temperature. Coffee flavor will be noticeably affected	displayed						
USER SELECTABLE OPTION: BREV	N AT TEMP: OFF						
(Not recommended) Unit will operate a		e					
	Allows brewing at any temperature above 77°C/170°F						
Below 70°C/170°F The brewer will displa							

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

C Service	Inputs	Brewer Sens	Brewer Sensors and Keypad				
POSITION	Program Items	Factory set Default	Programming Range	Increments	Notes		
C1	LLC Probe continuity	Direct read	Tank water resistance in TDS	≈850- LOW ≈1600-HIGH	Nominal values		
C2	Brew Basket Sensor	L-YES R-YES	YES or NO				
C4	Tank Temperature	Direct read	Hot water tank temperature		Actual values		
C5	USB Drive	NO	(not in use)				
C6	Keyboard Test	Calibrate	Checks buttons under membrane cover	YES/NO	Follow directions on the touch screen		

D Service	e Outputs	Test Valve	s and Heaters; Set s	screen bright	ness
POSITION	Program Items	Factory set Default	Programming Range	Increments	Notes
D1	Heater SSR Test	Press button 2 to test (button 1 stops test)	Activates heater Default is 10 sec	Toggle +/- OFF or ON	Energizes Heater(s) WARNING! Service use only.
D2	Fill Valve Test	Press button 2 to test (button 1 stops test)	Activates valve Default is 10 sec.	Toggle +/- OFF or ON	Press To Test
D3	LT (left) Brew Valve Test	(Press to test)	Activates valve Default is 10 sec.	Toggle +/- OFF or ON	Runs valve to verify flow. NOTE: Have container under brew basket.
D4	RT (right) Brew Valve Test	(Press to test)	Activates valve Default is 10 sec.	Toggle +/- OFF or ON	Runs valve to verify flow. NOTE: Have container under brew basket.
D5	LT (left) Bypass Valve Test	(Press to test)	Activates valve Default is 10 sec.	Toggle +/- OFF or ON	Runs valve to verify flow. NOTE: Have container under brew basket.
D6	RT (right) Brew Valve Test	(Press to test)	Activates valve Default is 10 sec.	Toggle +/- OFF or ON	Runs valve to verify flow. NOTE: Have container under brew basket.
D7	LT (left) Brew Basket Lock Test	(Press to test)	Activates Brew Basket Lock	Toggle +/- OFF or ON	Press To Test
D8	RT (right) Brew Basket Lock Test	(Press to test)	Activates Brew Basket Lock	Toggle +/- OFF or ON	Press To Test
	Single series	displays right side only	/ Left Valve display is or	nly for twin side	
D12	LCD Brightness	Brightness=90%	20-100%	5%	Adjust LCD screen brightness only-Not for LEDs under buttons
D13	LED Brightness	Brightness=60%	20-100%	5%	Adjust LED button brightness only-Not for the screen display LCD

E Calibrat	tion	Brewer Se	ensors and Keypad		
POSITION	Program Items	ns Factory set Default Programming Range Increments		Increments	Notes
E1	Ready Temp. Offset	-3°F -2°C	-2° to -9°F -1° to -5° C	1°F 1°C	Compensates output to measured temperature
E2	LLC Sensitivity	NORMAL ("NORMAL" for most water)	HIGH (Biased for reverse osmosis water or very pure water)	NORMAL HIGH	Liquid level control sensitivity. High,1300 Ω is for reverse osmosis water or very pure water.
E3	Slow flow rate from supply	ON	OFF/ON	Toggle +/- YES or NO	Trims fill system for low supply or Flojet use
E4	LT Brew Valve flow rate:	0.95G	0.80-1.09G 1.30-1.90Liter	0.01G 0.05L	Adjusts flow rate
E5	RT Brew Valve flow rate:	0.95G	0.80-1.09G 1.30-1.90Liter	0.01G 0.05L	Adjusts flow rate
E6	LT Bypass Valve flow rate:	0.38G	0.31-0.44G 0.80-1.09Liter	0.01G 0.05L	Adjusts flow rate
E7	RT Bypass Valve flow rate:	0.38G	0.31-0.44G 0.80-1.09Liter	0.01G 0.05L	Adjusts flow rate

Use this formula to compensate for minor discrepancies in actual volume versus programmed volume. See "PROGRAM" E4 & E5 For valve settings and calibration. Factory set brew valve flow rates are in liter/min Current setting is the flow from E4,E5, E6, E7 Default Brew Valve Flow Rate—CBS-1250 Brewers See table above for factory set default flow rates **CBS-1250** Gallons/minute Range ACTUAL VOLUME PROGRAMMED VOLUME X SETTING = NEW SETTING Left Brew Valve FR 0.95 0.80G to 1.09G **Right Brew Valve FR** 0.95 0.80G to 1.09G Use this formula to determine the correct setting Set FR lower to increase volume; set higher to decrease volume.

F Service	Морц	Software & Co	de View and Setting	6	
POSITION	Program Items	Factory set Default	Programming Range	S Increments	Notes
F1	Display Firmware	2.2.210720	Displays current version		[6/2020]
F2	Display Bootloader	2.0.210317	Displays current version		[6/2020]
F3	Select Model	CBS- 1251;1252;1253 Will need reboot	51;1252;1253 Scroll to brewer CBS		NOTE: Overwrites all user settings (See below)
F4	Option Bypass	Yes	NO or YES		
F5	Option BB Lock	Yes	NO or YES		
F8	Backup to USB	NO	Follow prompts	Saves settings	Insert blank USB
F9	Restore From USB		Applies settings from USB		Insert USB Will need reboot
F10	Restore Defaults	NO	NO/YES		Reset to factory
F11	Error Log	Lists up to six codes, in order	1: ; 2: ;3:;4: ;5: ;6: 1=Newest/6=Oldest LAST six errors only	Newest=first Oldest=last	See Error Codes Chart for references
F12	Erase Error Log	NO +		Toggle +/- YES or NO	FACTORY USE ONLY. DO NOT RESET
F13	Service Phone #	Enter as needed			Set phone contact
F14	Override Lt BBS	NO	NO/YES	Toggle +/- YES or NO	Disables brew basket sensor
F15	Override Rt BBS	NO	NO/YES	Toggle +/- YES or NO	Disables brew basket sensor
F16	Override Lt BBL	NO	NO/YES	Toggle +/- YES or NO	Disables brew basket lock
F17	Override Rt BBL	NO	NO/YES	Toggle +/- YES or NO	Disables brew basket lock

Code	act factory or specialized personnel for Description	Possible Cause	Corrective Action
001	Software error-error on start up or corrupted software	Improper start-up or shutdown	Restart, if still fault: reload software
002	Internal flash corrupted internal data memory malfunction	ernal flash corrupted Error found in cyclic F	
050	Short-circuit in temperature probe	Probe failure.	If not corrected: replace board Replace probe.
051	Open temperature probe.	Bad probe connection, or probe failure.	Check all connections. Replace probe if necessary.
100	Initial Fill Error. Initial fill time took longer than expected after powering up.	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 Tank did not refill within expected time.	Water supply flow rate to hot water tank is too low, or fill valve stuck or damaged (SEE PAGE 14)	Check water supply line. Flow should be 20-75 psig, (138-517kPa) >1gal/3.8L/mir 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 of 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	 Failure of SSR, high limit, temperature probe, or heating element. Water being removed by hot water faucet during heating (control displays "heating") 	 Test and check SSRs, high limit devices temperature probe. Check heating elements with current clamp, replace if necessary. Advise staff to refrain from taking large amounts of water from hot water tank, especially during "heating".
202	Heater Shorted or Stuck SSR	Heater is off and heating SSR is stuck "ON"	Check ohms on heater (15-60 Ω). 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 nsert B	rew Basket	Brew basket must be in place This is a SAFETY FEATURE	Insert brew basket into brewer rails to enable brewer

Page 11 User Guide & Operator instructions P213 REV001 FEBURARY 2023

G Counte	ers Bi	rewer Usage, W	/ater F	-ilter Usage, and	Statistics		
ROLE: [LT]=Per		V		esettable; [User]=Input neede			
Position	Counter	Program items	Role	Information	Increments	Notes	
G1-G4 are for w	vater filter maint	V V		ust use filtered water and filter	cartridges must be mor	nitored for quality	
G4	A, S, B	Counter Reset	[User]	NO	Toggle +/- ,Y or N		
G5	A, S, B	Choose Counter		Factory set to BASIC	Basic= B Advanced= A Statistical= S	Stored brewer component activity See column 2, Counters , to identify where counters are located.	
G10-G15 Numb		volumes handled. Availal		IC counter only (G5)			
G10	В	Brewer Volume	[LT]	Dispensed volume	Gallons/Liters	Total of brews and hot water dispensed	
G11	В	Brewer Volume	[R]				
G12	B	Lt Brews	[LT]	Left side brew total	Count	Total brews-Left side (CBS-1252 only)	
G13	B	Lt Brews	[R]	CBS-1252			
G14	B	Rt Brews	[LT]	Right side brew total	Count	Total brews-Right side	
G15	—	Rt Brews	[R]	CBS-1251&CBS-1252	E)	CBS-1251&CBS-1252	
G20-G55 comp G20		Fill Cycles	[LT]		5)		
G20 G21	A	Fill Cycles	[R]	Hot water tank refill cycles	Count	Cycles of hot water tank refill	
G21 G22	A	Fill Volume	[LT]				
G22 G23	A	Fill Volume	[L1] [R]	Total volume of water for all brews	Gallons/Liters	Quantity of water for brews	
G23 G24	A	Lt Brew Cycles	[LT]			Totalized avalage of value exerction	
G24 G25	A	Lt Brew Cycles	[L] [R]	Left brew valve operation on/off	Count	Totalized cycles of valve operation (CBS-1252 only)	
G26	A	Lt Brew Volume	[LT]	Left brew valve	Gallons/Liters	Totalized volume through left valve	
0.07				flow through volume	Galions/Liters	(CBS-1252 only)	
G27	A	Lt Brew Volume	[R]				
G28	A	Rt Brew Cycles	[LT]	Right brew valve	Count	Totalized cycles of valve operation	
G29	A	Rt Brew Cycles	[R]	operation on/off		CBS-1251&CBS-1252	
G30	A	Rt Brew Volume	[LT]	Right brew valve	Gallons/Liters	Totalized volume through right valve	
G31	A	Rt Brew Volume	[R]	flow through volume		CBS-1251&CBS-1252	
G32 G33	A A	Lt Bypass Cycles Lt Bypass Cycles	[LT] [R]	Left bypass valve operation on/off	Count	Totalized cycles of valve operation (CBS-1252 only)	
G34 G35	A	Lt Bypass Volume Lt Bypass Volume	[LT] [R]	Left bypass valve flow through volume	Gallons/Liters	Totalized volume through left valve (CBS-1252 only)	
G36	A	Rt Bypass Cycles	[LT]			Totalized cycles of valve operation	
G37	А	Rt Bypass Cycles	[R]	Count	Count	CBS-1251&CBS-1252	
G38	A	Rt Bypass Volume	[LT]	Right bypass valve flow	0	Totalized volume through right valve	
G39	A	Rt Bypass Volume	[R]	through volume	Gallons/Liters	CBS-1251&CBS-1252	
G48	A	Lt BBL Cycles	[LT]	Left brew basket lock		Totalized cycles of brew basket lock	
G49	A	Lt BBL Cycles	[R]	flow through volume	Count	operation (CBS-1252 only)	
G50	A	Rt BBL Cycles	[LT]	Right brew basket lock	Quant	Totalized cycles of brew basket lock	
G51	A	Rt BBL Cycles	[R]	operation on/off	Count	operation CBS-1251&CBS-1252	
G52	A	Heater Cycles	[LT]	ON/OFF switching for	Quant	Tatalization of the standard tables	
G53	А	Heater Cycles	[R]	heating elements	Count	Totalized cycles of heater switching	
G54	А	Heater On Time	[LT]	Total ON time for	Hour	Totalized booter ON time in hours	
G55	А	Heater On Time	[R]	heating element	Hour	Totalized heater ON time in hours	
G80-G91 See il	lustration below			in STATISTICAL counter only	(G5)		
G80	S	Batch 10 Cycles	[LT]	Menu button selection	Count	Total brews-left side top button	
G81	S	Batch 10 Cycles	[R]	and activation count	Count	(CBS-1252 only)	
G82	S	Batch 20 Cycles	[LT]	Menu button selection	Count	Total brews-left side middle button	
G83	S	Batch 20 Cycles	[R]	and activation count	Count	(CBS-1252 only)	
G84	S	Batch 30 Cycles	[LT]	Menu button selection	Count	Total brews-left side bottom button	
G85	S	Batch 30 Cycles	[R]	and activation count	Count	(CBS-1252 only)	
<u>G86</u> G87	S S	Batch 40 Cycles Batch 40 Cycles	[LT] [R]	Menu button selection and activation count	Count	Total brews-right side top button CBS-1251&CBS-1252	
G88	S	Batch 50 Cycles	[LT]	Menu button selection		Total brews-right side middle button	
G88 G89	S	Batch 50 Cycles	[R]	and activation count	Count	CBS-1251&CBS-1252	
G89 G90	S	Batch 60 Cycles	[LT]	Menu button selection		Total brews-right side bottom button	
G90 G91	S	Batch 60 Cycles	[R]	and activation count	Count	CBS-1251&CBS-1252	
691	3	Dater of Cycles	[¹]				

H Save & Exit Saving changes and exiting PROGRAMMING The brewer will save changes only from the "H" menu. **<u>DO NOT</u>** reboot brewer or toggle ON/OFF-exit as below. TO EXIT PROGRAMMING & HOW TO SAVE CONTROL SETTING CHANGES HOW TO SAVE CHANGES AND EXIT-The brewer is in PROGRAMMING mode. EXIT EXIT SAVE Programming A-H EXIT NO + YES -NO + YES -A-H+ H1 Н Н Н From the "H" screen From EXIT screen From SAVE screen To SAVE and EXIT From any screen-Press STOP button Press button 2 to Press button 1 to Press button 2, to Press button 1 to toggle to the EXITtoggle to the SAVE toggle to the SAVEuntil the EXIT ("H") SAVE your changes screen appears YES screen screen YES screen and EXIT

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

1) When setting or changing units of display for the tank temperature (F Fahrenheit or C Celsius). (SETTING B4)

- 2) When setting or changing units of display for the volume (L liters, G gallons).
- 3) When setting brewer model \rightarrow The software sets equipment to brewer defaults
- 4) When loading from USB (Reprograms settings)
- 5) When restoring defaults (Reloads to defaults)

(SETTING B5)

(SETTING F3)

(SETTING F9)

(SETTING E10)

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 halfway 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/118cc discharging overnight is possible. Place an appropriate container under each brew basket when not in use.
- 7. We recommend leaving the power to the brewer on overnight. The water tank is well insulated and very little electricity is used to keep the tank hot. Leaving the brewer in the "ON" position will also avoid delays at the beginning of shifts for the brewer to reach operating temperature.

Cleaning & Maintenance

After Each Brew:

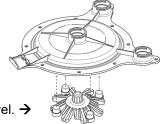
- 1. Dispose of grounds and rinse brew basket.
- 2. Never strike a brew basket or hit it against a hard surface.
 - This will damage the brew cone, and may damage the brew basket support rails
- 3. Rinse dispensers before reuse.

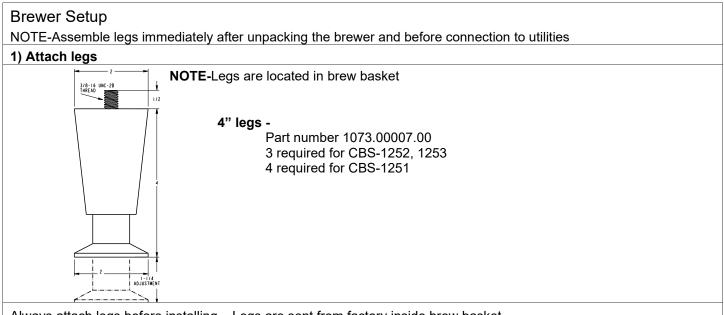
Every Day:

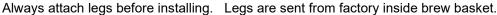
- 1. Wash brew basket with hot sudsy water.
- 2. Pull CSD from the spray head, it is magnetically attached. Use gloves or a heavy towel. -Wash off any film and reattach. Use vinegar if limescale filming is present.
- 3. Clean dispensers with hot suds water and a brush, rinse and air dry.
- 4. Use only 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.
- 3. Do not apply any type of spray cleaner on the face panel of this equipment.
- 4. Never use solvent or solvent-based cleaner or petroleum based polish anywhere on this equipment.
- 5. Dry the face of the touch pad before turning on power
- 6. Do not electrically energize this equipment or attempt operation without all covers in place and all screws fastened.
- 7. Unplug machine before disassembly or servicing.

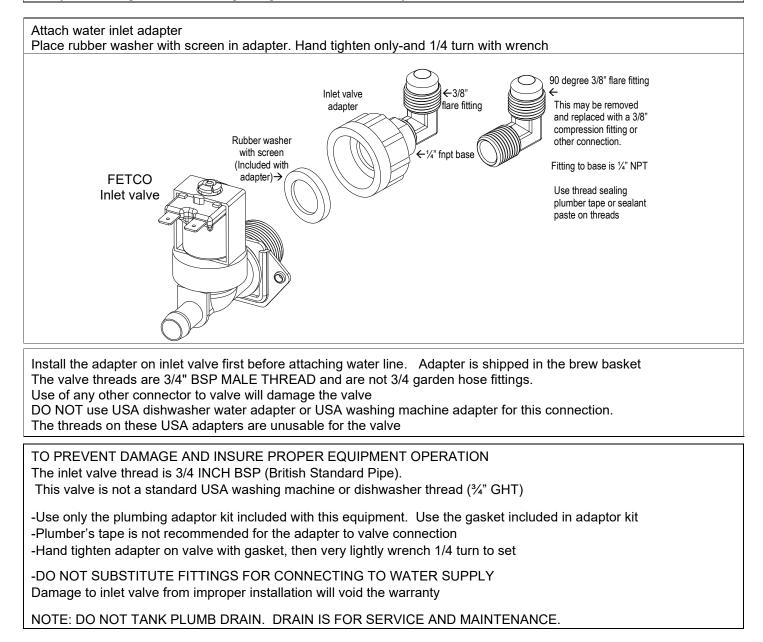
Safety Notes

- 1. Professional installation is required. This appliance is manufactured only for commercial use
- 2. Operational requirements and maintenance for commercial cooking appliances differ from household appliances.
- 3. Operators must be trained for this equipment and must understand the use, maintenance and hazards.
- 4. Access to the service area is restricted to persons having safety/hygiene knowledge and practical experience of the coffee brewer. This appliance must be installed in locations where it can be overseen by adult trained personnel.
- 5. Do not attempt to move hot beverage equipment once it is filled. Drain equipment before moving.
- 6. FETCO commercial coffee brewers prepare large amounts of coffee or tea in a single batch using very hot water
- 7. Commercial coffee brewers provide very hot water from the spray head, brew basket and faucet when it is pulled.
- 8. 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.
- 9. For safety, the brewer control locks the brew basket for 6.0 minutes after starting the brew.
- 10. Never attempt to defeat the factory set (default) time that the brew basket is locked for safety from start of brew. **Keep these instructions for training and future reference.**









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.
- 5. Attach the legs to the brewer before attaching the power and water lines. **See Page 15** 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 28-35 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.

 \rightarrow 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. Only use the supplied factory fitting to attach water supply line to brewer (shipped in brew basket) See page 15
- 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.
- \rightarrow Note: The CBS-1251 hot water tank when full holds 6.5 gallons; the CBS-1252 11.1 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. \rightarrow 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-1251 Single	6.5 gal 24.4 liter	ľ		
CBS-1252 Twin	11.1 gal 42.1 liter	PINCH SHUT To drain tank & service brewer		

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.

2. For proper operation, this appliance must be installed indoors where the temperature is between 10°C/50°F to 35°C/95°F. Drain and remove all liquid from equipment and lines if exposed to freezing temperatures.

3. All commercial cooking equipment, including this unit, is not intended for use by children or persons with reduced physical, sensory, or mental capabilities. Ensure proper supervision of children and keep them away from the unit.

4. Children should be supervised to ensure that they do not play around 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-toside 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

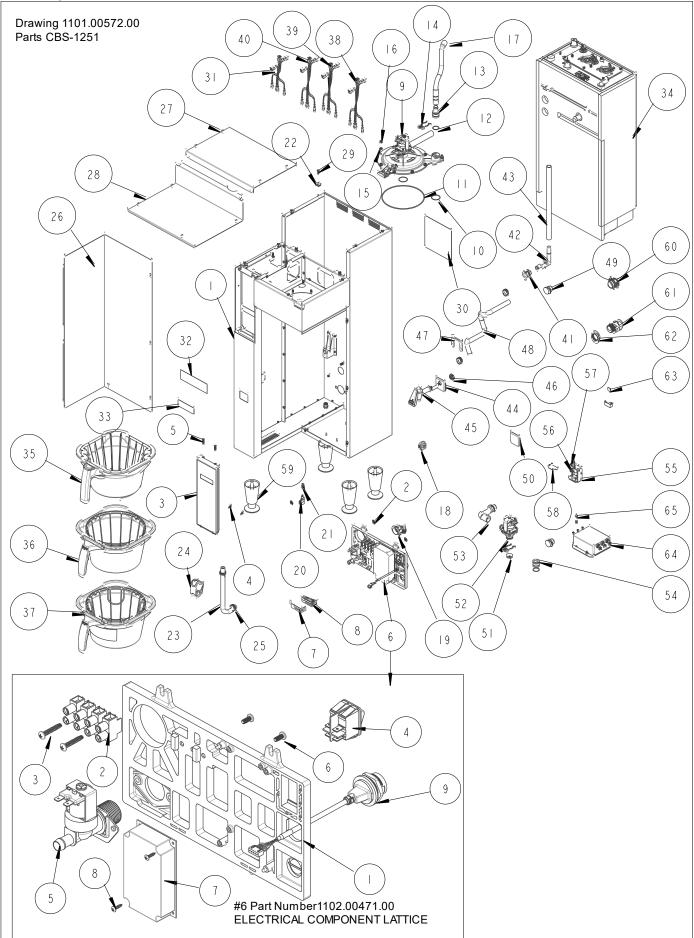


	WARNING To reduce risk of electric shock or fire.		
	FETCO® Hot Beverage Equipment is for commercial use only.		
Â	Do not remove or open cover. No user serviceable parts inside. Refer installation and service to qualified personnel.		
⚠	Caution, disconnect from power supply before servicing.		
Â	GROUND: 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.		
Â	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		
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

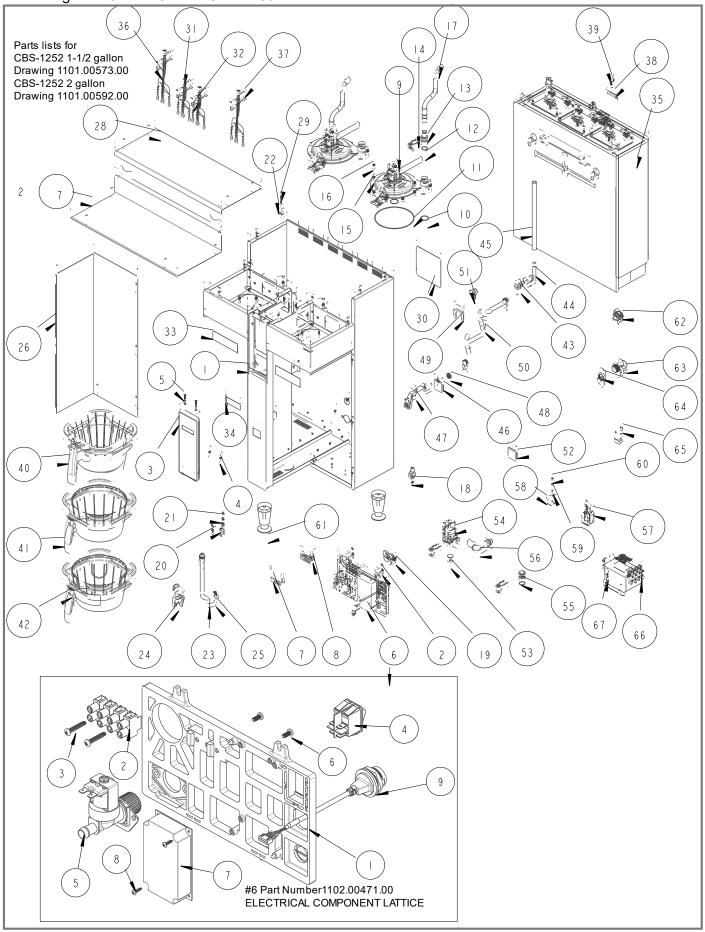
For BACK PANEL of equipment (1046.00035.00)

Parts Diagram CBS-1251



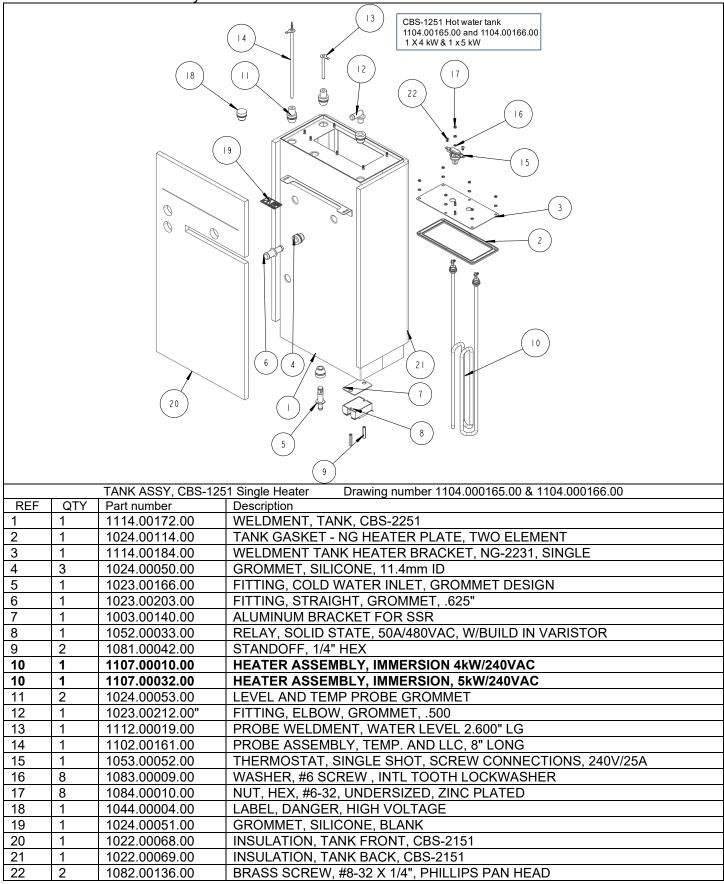
Ref Qty Part Number Description Drawing 1101.00572.00, CBS-1251 1 1 1111.00100.00 WELDMENT BODY, CBS-2251 2 6 1084.00051.00. NUT, HEX LOCKWASHER, #8-32, 18-8 ST. STL 3 1 1102.00480.00 FRONT PANEL ASSY, SINGLE, PLUS SERIES 4 2 1082.00029.00 SCREW, #6 X 3/8 LG, TRUSS HD PHIL, SHEET MTL 5 2 1082.00058.00 SCREW, #6 -32 X 5/8, FLAT HD, PH, 18-8 SS 6 1 1102.00471.00 ELECTRICAL COMPONENT LATTICE, NEXT GEN XV+ 6 REF 1 Reference ELECTRICAL COMPONENT LATTICE, NEXT GEN XV+ 6-1 1 1023.00350.00 ELECTRICAL MOUNTING LATTICE, COMMON 6-2 1 1052.00023.00 EUROSTRIP HE16 TERM. BLOCK, 4 POLE, 63 AMP, 18-8 AWG	
2 6 1084.00051.00. NUT, HEX LOCKWASHER, #8-32, 18-8 ST. STL 3 1 1102.00480.00 FRONT PANEL ASSY, SINGLE, PLUS SERIES 4 2 1082.00029.00 SCREW, #6 X 3/8 LG, TRUSS HD PHIL, SHEET MTL 5 2 1082.00058.00 SCREW, # 8-32 X 5/8, FLAT HD, PH, 18-8 SS 6 1 1102.00471.00 ELECTRICAL COMPONENT LATTICE, NEXT GEN XV+ 6 REF 1 Reference ELECTRICAL COMPONENT LATTICE, NEXT GEN XV+ 6-1 1 1023.00350.00 ELECTRICAL MOUNTING LATTICE, COMMON 6-2 1 1052.00023.00 EUROSTRIP HE16 TERM. BLOCK, 4 POLE, 63 AMP, 18-8 AWG	
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6-2 1 1052.00023.00 EUROSTRIP HE16 TERM. BLOCK, 4 POLE, 63 AMP, 18-8 AWG	
6-3 2 1082.00056.00 SCREW, # 8-16 x 1" PAN HD PHIL, THREAD FORMING, FOR PLAS	TICS, 18-8 SS
6-4 2 1058.00024.00 SWITCH, POWER, DOUBLE POLE, 16A, 125/250 VAC	
6-5 4 1057.00043.00 SOLENOID VALVE, 5.5L/min, 180 DEG, 24VDC	
6-6 2 1082.00010.00 SCREW, PAN HD. PHIL. MACH., M4x10 ZINC-PLATED	
6-7 1 1052.00059.00 POWER SUPPLY, 90-264VAC/24VDC, 2.25A	
6-8 2 1082.00020.00 SCREW, #6 X 5/8, TRUSS HD PHIL, SHEET MTL	
6-9 2 1058.00055.00 USB CONNECTOR 7 1 1097.00171.00 ADHESIVE, RGB LED BAR	
7 1 1097.00171.00 ADHESIVE, RGB LED BAR 8 1 1023.00390.00 LENS, LIGHT BAR, BLACK	
9 1 1102.00450.00 QUICK CONNECT SRAYHEAD ASSEMBLY, BASIC [See Page 24 fo	pr expanded drawing]
10 2 1024.00107.00 O-RING, 1 3/16" OD X 1 1/16" ID X 1/16" TH, BYPASS SEAL	or onpartable aranning
11 1 1024.00108.00 O-RING, 5 11/16"OD X 5 1/2" ID X 3/32" TH, BREW SEAL	
12 2 1024.00106.00 O-RING, 13/16"OD X 11/16"ID X 1/16" TH, FOR QUICK CONNECT	
13 1 1023.00343.00 VENT INSERT, QUICK CONNECT	
14 2 1023.00342.00 QUICK CONNECT CLIP	
15 10 1083.00010.00 WASHER, #10 SCREW W/NEOPRENE-BONDED SEAL 16 10 1094.00006.00 NULT 8.22.18.8 HEX MACHINE SCREW/	
16 10 1084.00006.00 NUT, 8-32 18-8 HEX MACHINE SCREW 17 1 1024.00098.00 VENT TUBE, CBS- EXTRACTOR SERIES	
17 1 1024.00098.00 VENTTOBE, CBS- EXTRACTOR SERIES 18 1 1086.00004.00 BUSHING, SNAP, 1" MOUNTING HOLE	
19 1 1102.00243.00 ADAPTER ASSY, 3/4" BSP x 1/4" NPT x 3/8" TUBE	
20 2 1065.0009.00 GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM	
21 1 1044.00012.00 LABEL GROUND, CE	
22 12 1084.00011.00 NUT, CLIP ON (J-NUT), #6-32, 22-20 GA., BLK-PH FINISH	
23 1 1025.00058.00 TUBE, 9/16"OD X 5/16"ID X 25.00"LG	
24 1 1086.0009.00 CLAMP, 3/4" MAX TUBE OD FLOW CONTROL	
25 4 1086.00003.00 UNICLAMP, 15.9 HOSE OD CLAMP 26 1 1112.00529.00 WELDMENT FRONT COVER, CBS-2250	
20 1 1112.00329.00 WEEDMENT ROAT COVER, CBS-2250 27 1 1001.00402.00 COVER TOP, CBS-2251	
28 1 1001.00403.00 COVER, UPPER BASE, CBS-2251	
29 12 1082.00017.00 SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG.	
30 1 1046.00035.00 LABEL, WARNING "TO REDUCE RISK OF ELECTRIC SHOCK OR F	FIRE"
31 1 1402.00097.10 WIRE HARNESS, CBS-1240/50, LOW AMP, UNIVERSAL	
32 1 1046.00003.00 LABEL, CSD WARNING, 1.5" X 5.0"	
33 1 1041.00033.00 BLACK EXTRACTOR PLUS LABEL, LASER ENGRAVED 34 1 1104.00165.00 TANK ASSEMBLY, CBS-2251, 1 X 4KW/240VAC [See additional p	ages for expanded drawing
34 1 1104.00166.00 TANK ASSEMBLY, CBS-2251, 1 X 4KW/240VAC See additional p 34 1 1104.00166.00 TANK ASSEMBLY, CBS-2251, 1 X 5KW/240VAC See additional p	
34 1 1104.00167.00 TANK ASSEMBLY, CBS-2251, 2 X 2.3KW/240VAC	
34 1 1104.00168.00 TANK ASSEMBLY, CBS-2251, 2 X 3KW/240VAC	
35 1 B015280BN2BK BREW BASKET ASSY, 16" X 6", 0.280" DIA HOLE, BROWN PLUG	
36 1 B001280B1BB ASSY, 16" X 6", 0.280 DIA HOLE, BLACK	
37 1 B002280B1BB ASSY, 16" X 6", 0.280" DIA HOLE, BLACK	
38 1 1402.00037.10 HARNESS HIGH AMP, CBS-2232/42/51, UL 30 1 1400.00030.10 HARNESS HIGH AMP, CBS-2232/42/51, UL	
39 1 1402.00039.10 HARNESS HIGH AMP, CBS-2231/41/51, UL 40 1 1402.00121.10 WIRE HARNESS ADDITION, HIGH AMP, EMI FILTER, 2-POLE, CE	
40 1 1402.00121.10 WIRE HARNESS ADDITION, HIGH AMP, EMI FILTER, 2-POLE, CE 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 1013.00131.00 TUBE, 304SS, .625OD X .065 WALL X 11-1/2" 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 2 1024.00051.00 GROMMET, SILICONE, BLANK	
49 2 1024.00051.00 GROMMET, SILICONE, BLANK 50 1 1023.00349.00 HOT WATER INSERT, NO FAUCET	
50 1 1023.00349.00 HOT WATER INSERT, QUICK CONNECT, 3/16" HOLE 51 1 1023.00369.00 ORIFICE INSERT, QUICK CONNECT, 3/16" HOLE	
51 1 1020.0000.00 Orthite intellity, condition of the intellity, conditioned in the intellity, conditable, condi	
53 1 1029.00042.00 BYPASS L-TUBE, SILICONE, 2200 SINGLE SERIES	
54 1 1023.00344.00 PLUG INSERT, QUICK CONNECT	
55 1 1102.00219.00 ASSEMBLY, BB LOCKER, 24VDC	
56 6 1083.00009.00 WASHER, #6 SCREW, INTL TOOTH LOCKWASHER 57 2 4004.00040.00 NUT HEX #0.00 UNDERDIZED ZING DI ATED	
57 2 1084.00010.00 NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED 58 1 1002.00250.00 PBACKET, PDEW, PASKET LOCK COV/EP	
58 1 1003.00259.00 BRACKET, BREW BASKET LOCK COVER 59 4 1073.00007.00 LEG, FLANGE FOOT, 4" HIGH	
59 4 1073.00007.00 LEG, FLANGE FOOT, 4 HIGH 60 1 1086.00008.00 CONNECTOR, CLAMP, NON-METALLIC CABLE, 3/4"	
61 1 1086.00031.00 SKINTOP, 3/4" NPT, 0.354" - 0.630" DIA CABLE, BLK	
62 1 1086.00032.00 LOCKNUT, SKINTOP, 3/4" NPT, BLACK HEX	
63 1 1044.00013.00 LABEL EQUIPOTENTIALITY, CE	
64 1 1052.00027.00 EMI FILTER, THREE LINE 30A, 250/440VAC	
65 4 1084.00012.00 NUT, HEX, #6-32 MACHINE SCREW	

Parts Diagrams CBS-1252 and CBS-1253



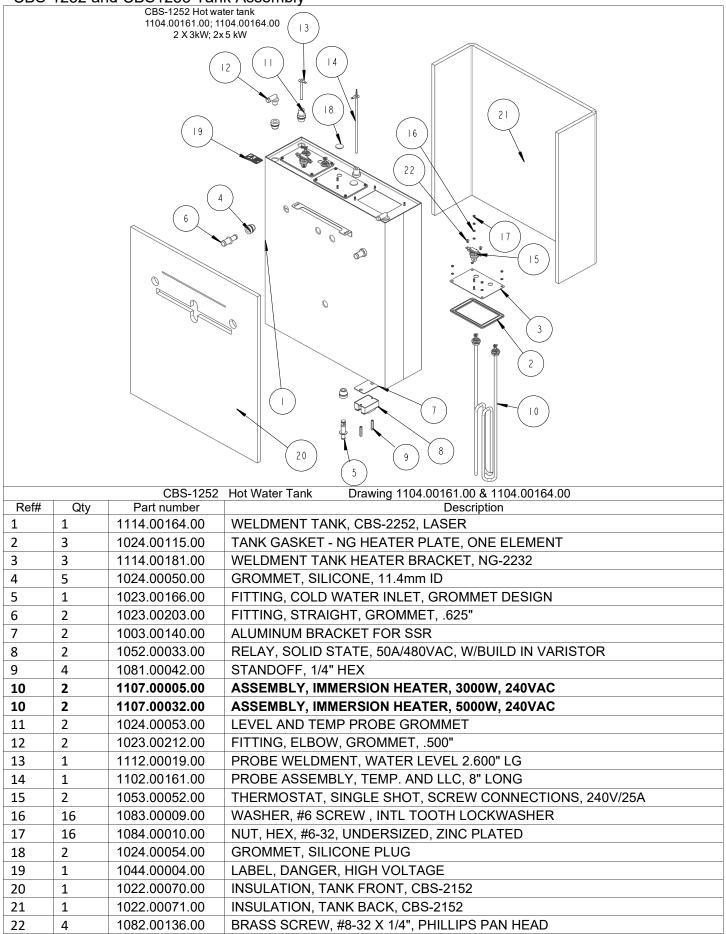
REF 1 1	QTY 1	Part number 1111.00099.00	Description Drawing 1101.00573.00, 1101.00059.00 Parts CBS-1252 and applies to CBS-1253
		1111.00033.00	WELDMENT BODY, CBS-2252 11/2 gallon brewer only
	1	1111.00114.00	WELDMENT BODY, CBS-2252 2 gallon brewer only
2	6	1084.00051.00	NUT, HEX LOCKWASHER, #8-32, 18-8 ST. STL.
3	1	1102.00470.00	FRONT PANEL ASSY, DOUBLE, PLUS SERIES
4 5	2	1082.00029.00 1082.00058.00	SCREW, #6 X 3/8 LG, TRUSS HD PHIL, SHEET MTL SCREW, # 8-32 X 5/8, FLAT HD, PH, 18-8 SS
6 REF	1	Reference	ELECTRICAL COMPONENT LATTICE, NEXT GEN XV+
6-1	1	1023.00350.00	ELECTRICAL MOUNTING LATTICE, COMMON
6-2	1	1052.00023.00	EUROSTRIP HE16 TERM. BLOCK, 4 POLE, 63 AMP, 18-8 AWG
6-3	2	1082.00056.00	SCREW, # 8-16 x 1" PAN HD PHIL, THREAD FORMING, FOR PLASTICS, 18-8 SS
6-4	2	1058.00024.00	SWITCH, POWER, DOUBLE POLE, 16A, 125/250 VAC
6-5	4	1057.00043.00	SOLENOID VALVE, 5.5L/min, 180 DEG, 24VDC
6-6 6-7	1	1082.00010.00 1052.00059.00	SCREW, PAN HD. PHIL. MACH., M4x10 ZINC-PLATED POWER SUPPLY, 90-264VAC/24VDC, 2.25A
6-8	2	1082.00020.00	SCREW, #6 X 5/8, TRUSS HD PHIL, SHEET MTL
6-9	2	1058.00055.00	USB CONNECTOR
7	1	1097.00171.00	ADHESIVE, RGB LED BAR
8	1	1023.00390.00	LENS, LIGHT BAR, BLACK
9	2	1102.00450.00	QUICK CONNECT SRAYHEAD ASSEMBLY, BASIC [See Page 24 for expanded drawing]
10 11	4	1024.00107.00 1024.00108.00	O-RING, 1 3/16" OD X 1 1/16" ID X 1/16" TH, BYPASS SEAL O-RING, 5 11/16"OD X 5 1/2" ID X 3/32" TH, BREW SEAL
12	3	1024.00106.00	O-RING, 13/16"OD X 11/16"ID X 1/16" TH, FOR QUICK CONNECT
13	2	1023.00343.00	VENT INSERT, QUICK CONNECT
14	4	1023.00342.00	QUICK CONNECT CLIP
15	20	1083.00010.00	WASHER, #10 SCREW W/NEOPRENE-BONDED SEAL
16	20	1084.00006.00	NUT, 8-32 18-8 HEX MACHINE SCREW
17	2	1024.00098.00	VENT TUBE, CBS- EXTRACTOR SERIES
18 19	2	1086.00004.00 1102.00243.00	BUSHING, SNAP, 1" MOUNTING HOLE ADAPTER ASSY, 3/4" BSP x 1/4" NPT x 3/8" TUBE
20	2	1065.00009.00	GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM
20	1	1044.00012.00	LABEL GROUND, CE
22	12	1084.00011.00	NUT, CLIP ON (J-NUT), #6-32, 22-20 GA., BLK-PH FINISH
23	1	1025.00058.00	TUBE, 9/16"OD X 5/16"ID X 25.00"LG
24	1	1086.00009.00	CLAMP, 3/4" MAX TUBE OD FLOW CONTROL
25	4	1086.00003.00	UNICLAMP, 15.9 HOSE OD CLAMP
26 27	1	1112.00529.00 1001.00352.00	WELDMENT FRONT COVER, CBS-2250 11/2 gallon brewer and 2 gallon brewer COVER, UPPER BASE, CBS-1152 EXTRACTOR V+
28	1	1001.00399.00	COVER TOP, CBS-2252
29	12	1082.00017.00	SCREW, TRUSS HD. PHIL. MACHINE, # 6-32 X 1/2 LG.
30	1	1046.00035.00	LABEL, WARNING "TO REDUCE RISK OF ELECTRIC SHOCK OR FIRE"
31	1	1402.00097.10	WIRE HARNESS, CBS-1240/50, LOW AMP, UNIVERSAL
32	1	1402.00097.11	WIRE HARNESS ADDITION, CBS-1252, LOW AMP, UNIVERSAL
33 34	2	1046.00003.00	LABEL, CSD WARNING, 1.5" X 5.0" BLACK EXTRACTOR PLUS LABEL, LASER ENGRAVED
34 35	1 1	1041.00033.00 1104.00160.00	TANK ASSEMBLY, CBS-2252, 3 X 3KW/240VAC [See additional pages for expanded drawing]
35	1	1104.00161.00	TANK ASSEMBLY, CBS-2252, 2 X 3KW/240VAC [See additional pages for expanded drawing]
35	1	1104.00162.00	TANK ASSEMBLY, CBS-2252, 3 X 4KW/240VAC [See additional pages for expanded drawing]
35	1	1104.00163.00	TANK ASSEMBLY, CBS-2252, 3 X 5KW/240VAC [See additional pages for expanded drawing]
35	1	1104.00164.00	TANK ASSEMBLY, CBS-2252, 2 X 5KW/240VAC [See additional pages for expanded drawing]
36	1	1402.00112.10	WIRE HARNESS, CBS-1252/61, HIGH AMP, 1 OR 3PH, 3 HEATERS, UL
37 38	1	1402.00120.10 1022.00032.00	WIRE HARNESS, 3 HEATER, HIGH AMP, 3L-N-PE, 220/380-240/415, INTL/CE SLEEVE, Ø.50 x 2.0" LG. x 1.50" SLOT
39	1	1066.00003.00	CABLE TIE, 3-7/8" LG., BLACK
40	1	B015280BN2BK	BREW BASKET ASSY BLACK, 16" X 6", 0.280" DIA HOLE, BROWN PLUG
41	1	B001280B1BB	ASSY, 16" X 6", 0.280 DIA HOLE, BLACK
42	1	B002280B1BB	ASSY, 16" X 6", 0.280" DIA HOLE, BLACK
43	1	1024.00111.00	GROMMET, SILICONE, W/ POSITION TABS
44 45	1	1023.00362.00 1013.00131.00	FITTING VENT, ELBOW, .375" X .375", SELF POSITIONING TUBE, 304SS, .625OD X .065 WALL X 11-1/2" LG.
45	1	1013.00131.00	HOT WATER INSERT, MANUAL FAUCET
40	1	1071.00055.00	FAUCET, HOT WATER, PSC-BR-8, WITH FLAT AND STEM
48	1	1084.00048.00	JAM NUT, 1/2-20 UNF, NICKEL PLATED BRASS
49	1	1003.00370.00	HOT WATER INSERT LOCK
50	1	1025.00120.00	TUBE, 9/16"OD X 5/16"ID X 13.00"LG
51	1	1024.00051.00	GROMMET, SILICONE, BLANK
52	1	1023.00349.00	HOT WATER INSERT, NO FAUCET
53 54	1	1023.00369.00 1057.00076.00	ORIFICE INSERT, QUICK CONNECT, 3/16" HOLE VALVE ASSEMBLY, COMPLETE, NG, DELTROL
55	1	1023.00344.00	PLUG INSERT, QUICK CONNECT
56	1	1029.00042.00	BYPASS L-TUBE, SILICONE, 2200 SINGLE SERIES
57	1	1102.00219.00	ASSEMBLY, BB LOCKER, 24VDC
58	1	1003.00259.00	BRACKET, BREW BASKET LOCK COVER
59	2	1083.00009.00	WASHER, #6 SCREW, INTL TOOTH LOCKWASHER
60	1	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
61 62	3	1073.00007.00 1086.00008.00	LEG, FLANGE FOOT, 4" HIGH CONNECTOR, CLAMP, NON-METALLIC CABLE, 3/4"
63	1	1086.00031.00	SKINTOP, 3/4" NPT, 0.354" - 0.630" DIA CABLE, BLK
64	1	1086.00032.00	LOCKNUT, SKINTOP, 3/4" NPT, BLACK HEX
65	1	1044.00013.00	LABEL EQUIPOTENTIALITY, CE
66	1	1052.00050.00	EMI FILTER, 25A, 250/440VAC, 50/60Hz
67	1	1084.00012.00	NUT, HEX, #6-32 MACHINE SCREW

CBS-1251 Tank Assembly



		CBS-1251 Ho 1104.00167.0 2 X 2.3 kW &	00 and 1104.00168
		6	
		0	
		20	
	ASSV	CBS-1251 Two Heate	18 17 r. Drowing number 1104 000167 00 % 1104 00168 00
REF	QTY	Part number	r Drawing number 1104.000167.00 & 1104.00168.00 Description
1	1	1114.00172.00	WELDMENT, TANK, CBS-2251
2	1	1024.00114.00	TANK GASKET - NG HEATER PLATE, TWO ELEMENT
3	1	1114.00176.00	WELDMENT TANK HEATER BRACKET, NG-2231
4	3	1024.00050.00	GROMMET, SILICONE, 11.4mm ID
5	1	1023.00166.00	FITTING, COLD WATER INLET, GROMMET DESIGN
6	1	1023.00203.00	FITTING, STRAIGHT, GROMMET, .625"
7	2	1003.00140.00	ALUMINUM BRACKET FOR SSR
8	2	1052.00033.00	RELAY, SOLID STATE, 50A/480VAC, W/BUILD IN VARISTOR
9	4	1081.00042.00	STANDOFF, 1/4" HEX
10	2	1107.00037.00	HEATER ASSEMBLY, IMMERSION 2300W/240VAC
10	2	1107.00005.00	HEATER ASSEMBLY, IMMERSION 3000W/240VAC
11	2	4004 00050 00	LEVEL AND TEMP PROBE GROMMET
	2	1024.00053.00	
12	1	1024.00053.00	FITTING, ELBOW, GROMMET, .500"
12 13			
	1	1023.00212.00	FITTING, ELBOW, GROMMET, .500"
13	1	1023.00212.00 1112.00019.00	FITTING, ELBOW, GROMMET, .500" PROBE WELDMENT, WATER LEVEL 2.600" LG
13 14	1 1 1	1023.00212.001112.00019.001102.00161.00	FITTING, ELBOW, GROMMET, .500" PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG
13 14 15	1 1 1 2	1023.00212.001112.00019.001102.00161.001053.00052.00	FITTING, ELBOW, GROMMET, .500" PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG THERMOSTAT, SINGLE SHOT, SCREW CONNECTIONS, 240V/25A
13 14 15 16	1 1 1 2 10	1023.00212.00 1112.00019.00 1102.00161.00 1053.00052.00 1083.00009.00	FITTING, ELBOW, GROMMET, .500" PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG THERMOSTAT, SINGLE SHOT, SCREW CONNECTIONS, 240V/25A WASHER, #6 SCREW , INTL TOOTH LOCKWASHER
13 14 15 16 17	1 1 2 10 10	1023.00212.00 1112.00019.00 1102.00161.00 1053.00052.00 1083.00009.00 1084.00010.00	FITTING, ELBOW, GROMMET, .500" PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG THERMOSTAT, SINGLE SHOT, SCREW CONNECTIONS, 240V/25A WASHER, #6 SCREW, INTL TOOTH LOCKWASHER NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
13 14 15 16 17 18	1 1 2 10 10 10 1	1023.00212.00 1112.00019.00 1102.00161.00 1053.00052.00 1083.0009.00 1084.00010.00 1024.00051.00	FITTING, ELBOW, GROMMET, .500" PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG THERMOSTAT, SINGLE SHOT, SCREW CONNECTIONS, 240V/25A WASHER, #6 SCREW , INTL TOOTH LOCKWASHER NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED GROMMET, SILICONE, BLANK
13 14 15 16 17 18 19	1 1 2 10 10 10 1 1 1	1023.00212.00 1112.00019.00 1102.00161.00 1053.00052.00 1083.0009.00 1084.00010.00 1024.00051.00 1044.00004.00	FITTING, ELBOW, GROMMET, .500" PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG THERMOSTAT, SINGLE SHOT, SCREW CONNECTIONS, 240V/25A WASHER, #6 SCREW, INTL TOOTH LOCKWASHER NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED GROMMET, SILICONE, BLANK LABEL, DANGER, HIGH VOLTAGE

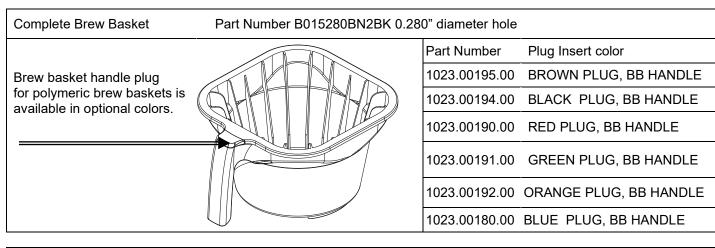
CBS-1252 and CBS1253 Tank Assembly

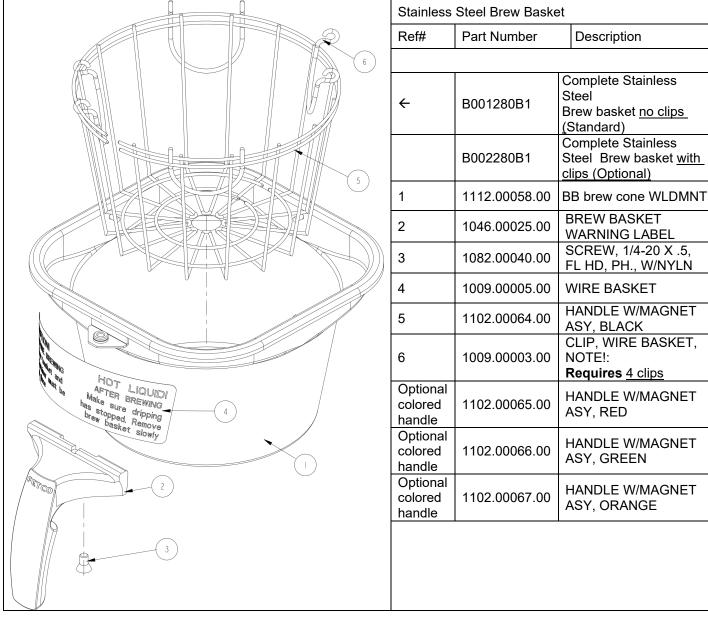


		1104.00160.0	252 Hot water tank 10: 1104.00162.00 13: X 4 kW & 3 x 5 kW
Ref#	Qty	Part number	253 Hot Water Tank Drawing 1104.00160.00; 1104.00162.00; 1104,00163.00 Description
1	Qty 1	Part number 1114.00164.00	253 Hot Water Tank Drawing 1104.00160.00; 1104.00162.00; 1104,00163.00 Description WELDMENT TANK, CBS-2252, LASER
1 2	Qty 1 3	Part number 1114.00164.00 1024.00115.00	253 Hot Water Tank Drawing 1104.00160.00; 1104.00162.00; 1104,00163.00 Description WELDMENT TANK, CBS-2252, LASER TANK GASKET - NG HEATER PLATE, ONE ELEMENT
1 2 3	Qty 1 3 3	Part number 1114.00164.00 1024.00115.00 1114.00181.00	253 Hot Water Tank Drawing 1104.00160.00; 1104.00162.00; 1104,00163.00 Description WELDMENT TANK, CBS-2252, LASER TANK GASKET - NG HEATER PLATE, ONE ELEMENT WELDMENT TANK HEATER BRACKET, NG-2232
1 2 3 4	Qty 1 3 3 2	Part number 1114.00164.00 1024.00115.00 1114.00181.00 1024.00053.00	253 Hot Water Tank Drawing 1104.00160.00; 1104.00162.00; 1104,00163.00 Description WELDMENT TANK, CBS-2252, LASER TANK GASKET - NG HEATER PLATE, ONE ELEMENT WELDMENT TANK HEATER BRACKET, NG-2232 LEVEL AND TEMP PROBE GROMMET
1 2 3 4 5	Qty 1 3 3 2 5	Part number 1114.00164.00 1024.00115.00 1114.00181.00 1024.00053.00 1024.00050.00	253 Hot Water Tank Drawing 1104.00160.00; 1104.00162.00; 1104,00163.00 Description WELDMENT TANK, CBS-2252, LASER TANK GASKET - NG HEATER PLATE, ONE ELEMENT WELDMENT TANK HEATER BRACKET, NG-2232 LEVEL AND TEMP PROBE GROMMET GROMMET, SILICONE, 11.4mm ID
1 2 3 4	Qty 1 3 3 2 5 1	Part number 1114.00164.00 1024.00115.00 1114.00181.00 1024.00053.00 1024.00050.00 1112.00019.00	253 Hot Water Tank Drawing 1104.00160.00; 1104.00162.00; 1104,00163.00 Description WELDMENT TANK, CBS-2252, LASER TANK GASKET - NG HEATER PLATE, ONE ELEMENT WELDMENT TANK HEATER BRACKET, NG-2232 LEVEL AND TEMP PROBE GROMMET GROMMET, SILICONE, 11.4mm ID PROBE WELDMENT, WATER LEVEL 2.600" LG
1 2 3 4 5 6 7	Qty 1 3 2 5 1 1 1	Part number 1114.00164.00 1024.00115.00 1114.00181.00 1024.00053.00 1024.00050.00 1112.00019.00 1102.00161.00	253 Hot Water Tank Drawing 1104.00160.00; 1104.00162.00; 1104,00163.00 Description WELDMENT TANK, CBS-2252, LASER TANK GASKET - NG HEATER PLATE, ONE ELEMENT WELDMENT TANK HEATER BRACKET, NG-2232 LEVEL AND TEMP PROBE GROMMET GROMMET, SILICONE, 11.4mm ID PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG
1 2 3 4 5 6 7 8	Qty 1 3 2 5 1 1 2 2	Part number 1114.00164.00 1024.00115.00 1114.00181.00 1024.00053.00 1024.00050.00 1112.00019.00 1102.00161.00 1023.00212.00	253 Hot Water Tank Drawing 1104.00160.00; 1104.00162.00; 1104,00163.00 Description WELDMENT TANK, CBS-2252, LASER TANK GASKET - NG HEATER PLATE, ONE ELEMENT WELDMENT TANK HEATER BRACKET, NG-2232 LEVEL AND TEMP PROBE GROMMET GROMMET, SILICONE, 11.4mm ID PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG FITTING, ELBOW, GROMMET, .500"
1 2 3 4 5 6 7 8 9	Qty 1 3 2 5 1 1 2 2 2	Part number 1114.00164.00 1024.00115.00 1114.00181.00 1024.00053.00 1024.00050.00 1112.00019.00 1102.00161.00 1023.00212.00 1023.00203.00	253 Hot Water Tank Drawing 1104.00160.00; 1104.00162.00; 1104,00163.00 Description WELDMENT TANK, CBS-2252, LASER TANK GASKET - NG HEATER PLATE, ONE ELEMENT WELDMENT TANK HEATER BRACKET, NG-2232 LEVEL AND TEMP PROBE GROMMET GROMMET, SILICONE, 11.4mm ID PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG FITTING, ELBOW, GROMMET, .500" FITTING, STRAIGHT, GROMMET, .625"
1 2 3 4 5 6 7 8 9 10	Qty 1 3 2 5 1 1 2 2	Part number 1114.00164.00 1024.00115.00 1114.00181.00 1024.00053.00 1024.00050.00 1112.00019.00 1102.00161.00 1023.00203.00 1023.00203.00	253 Hot Water Tank Drawing 1104.00160.00; 1104.00162.00; 1104,00163.00 Description WELDMENT TANK, CBS-2252, LASER TANK GASKET - NG HEATER PLATE, ONE ELEMENT WELDMENT TANK HEATER BRACKET, NG-2232 LEVEL AND TEMP PROBE GROMMET GROMMET, SILICONE, 11.4mm ID PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG FITTING, ELBOW, GROMMET, .500" FITTING, STRAIGHT, GROMMET, .625" FITTING, COLD WATER INLET, GROMMET DESIGN
1 2 3 4 5 6 7 8 9 10 10 11	Qty 1 3 2 5 1 1 2 2 2	Part number 1114.00164.00 1024.00115.00 1114.00181.00 1024.00053.00 1024.00050.00 1112.00019.00 1102.00161.00 1023.00212.00 1023.00166.00 1107.00005.00	253 Hot Water Tank Drawing 1104.00160.00; 1104.00162.00; 1104,00163.00 Description WELDMENT TANK, CBS-2252, LASER TANK GASKET - NG HEATER PLATE, ONE ELEMENT WELDMENT TANK HEATER BRACKET, NG-2232 LEVEL AND TEMP PROBE GROMMET GROMMET, SILICONE, 11.4mm ID PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG FITTING, ELBOW, GROMMET, .500" FITTING, STRAIGHT, GROMMET, .625" FITTING, COLD WATER INLET, GROMMET DESIGN ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC
1 2 3 4 5 6 7 8 9 10 10 11 11	Qty 1 3 2 5 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Part number 1114.00164.00 1024.00115.00 1114.00181.00 1024.00053.00 1024.00050.00 1112.00019.00 1102.00161.00 1023.00212.00 1023.00203.00 1023.00166.00 1107.00005.00	253 Hot Water Tank Drawing 1104.00160.00; 1104.00162.00; 1104,00163.00 Description WELDMENT TANK, CBS-2252, LASER TANK GASKET - NG HEATER PLATE, ONE ELEMENT WELDMENT TANK HEATER BRACKET, NG-2232 LEVEL AND TEMP PROBE GROMMET GROMMET, SILICONE, 11.4mm ID PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG FITTING, ELBOW, GROMMET, .500" FITTING, ELBOW, GROMMET, .625" FITTING, STRAIGHT, GROMMET, .625" FITTING, COLD WATER INLET, GROMMET DESIGN ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC ASSEMBLY, IMMERSION HEATER, 4000W, 240VAC
1 2 3 4 5 6 7 8 9 10 10 11 11 11	Qty 1 3 2 5 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Part number 1114.00164.00 1024.00115.00 1114.00181.00 1024.00053.00 1024.00050.00 1112.00019.00 1102.00161.00 1023.00212.00 1023.00166.00 1107.00010.00 1107.00032.00	253 Hot Water Tank Drawing 1104.00160.00; 1104.00162.00; 1104,00163.00 Description WELDMENT TANK, CBS-2252, LASER TANK GASKET - NG HEATER PLATE, ONE ELEMENT WELDMENT TANK HEATER BRACKET, NG-2232 LEVEL AND TEMP PROBE GROMMET GROMMET, SILICONE, 11.4mm ID PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG FITTING, ELBOW, GROMMET, .500" FITTING, ELBOW, GROMMET, .625" FITTING, STRAIGHT, GROMMET, .625" FITTING, COLD WATER INLET, GROMMET DESIGN ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC ASSEMBLY, IMMERSION HEATER, 5000W, 240VAC
1 2 3 4 5 6 7 8 9 10 10 11 11	Qty 1 3 2 5 1 1 2 2 1 1 1 1 1 1 1 1 3	Part number 1114.00164.00 1024.00115.00 1114.00181.00 1024.00053.00 1024.00050.00 1112.00019.00 1102.00161.00 1023.00212.00 1023.00203.00 1023.00166.00 1107.00005.00 1107.00032.00 1053.00052.00	253 Hot Water Tank Drawing 1104.00160.00; 1104.00162.00; 1104,00163.00 Description WELDMENT TANK, CBS-2252, LASER TANK GASKET - NG HEATER PLATE, ONE ELEMENT WELDMENT TANK HEATER BRACKET, NG-2232 LEVEL AND TEMP PROBE GROMMET GROMMET, SILICONE, 11.4mm ID PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG FITTING, ELBOW, GROMMET, .500" FITTING, STRAIGHT, GROMMET, .625" FITTING, STRAIGHT, GROMMET, .625" FITTING, COLD WATER INLET, GROMMET DESIGN ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC ASSEMBLY, IMMERSION HEATER, 4000W, 240VAC THERMOSTAT, SINGLE SHOT, SCREW CONNECTIONS, 240V/25A,
1 2 3 4 5 6 7 8 9 10 10 11 11 11	Qty 1 3 2 5 1 1 2 2 1 1 1 1 1 3 18	Part number 1114.00164.00 1024.00115.00 1114.00181.00 1024.00053.00 1024.00050.00 1112.00019.00 1102.00161.00 1023.00212.00 1023.00203.00 1023.00166.00 1107.00005.00 1107.00010.00 1053.00052.00 1083.00009.00	253 Hot Water Tank Drawing 1104.00160.00; 1104.00162.00; 1104,00163.00 Description WELDMENT TANK, CBS-2252, LASER TANK GASKET - NG HEATER PLATE, ONE ELEMENT WELDMENT TANK HEATER BRACKET, NG-2232 LEVEL AND TEMP PROBE GROMMET GROMMET, SILICONE, 11.4mm ID PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG FITTING, ELBOW, GROMMET, .625" FITTING, STRAIGHT, GROMMET, .625" FITTING, COLD WATER INLET, GROMMET DESIGN ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC ASSEMBLY, IMMERSION HEATER, 4000W, 240VAC ASSEMBLY, IMMERSION HEATER, 5000W, 240VAC THERMOSTAT, SINGLE SHOT, SCREW CONNECTIONS, 240V/25A, WASHER, #6 SCREW , INTL TOOTH LOCKWASHER
1 2 3 4 5 6 7 8 9 10 11 11 11 12	Qty 1 3 2 5 1 1 2 2 1 1 1 1 1 1 1 1 3	Part number 1114.00164.00 1024.00115.00 1114.00181.00 1024.00053.00 1024.00050.00 1112.00019.00 1102.00161.00 1023.00212.00 1023.00203.00 1023.00166.00 1107.00005.00 1107.00032.00 1053.00052.00	253 Hot Water Tank Drawing 1104.00160.00; 1104.00162.00; 1104,00163.00 Description WELDMENT TANK, CBS-2252, LASER TANK GASKET - NG HEATER PLATE, ONE ELEMENT WELDMENT TANK HEATER BRACKET, NG-2232 LEVEL AND TEMP PROBE GROMMET GROMMET, SILICONE, 11.4mm ID PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG FITTING, ELBOW, GROMMET, .500" FITTING, STRAIGHT, GROMMET, .625" FITTING, STRAIGHT, GROMMET, .625" FITTING, COLD WATER INLET, GROMMET DESIGN ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC ASSEMBLY, IMMERSION HEATER, 4000W, 240VAC THERMOSTAT, SINGLE SHOT, SCREW CONNECTIONS, 240V/25A, WASHER, #6 SCREW , INTL TOOTH LOCKWASHER NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
1 2 3 4 5 6 7 8 9 10 11 11 11 11 12 13	Qty 1 3 2 5 1 1 2 2 1 1 1 1 1 3 18	Part number 1114.00164.00 1024.00115.00 1114.00181.00 1024.00053.00 1024.00050.00 1112.00019.00 1102.00161.00 1023.00212.00 1023.00203.00 1023.00166.00 1107.00005.00 1107.00010.00 1053.00052.00 1083.00009.00	253 Hot Water Tank Drawing 1104.00160.00; 1104.00162.00; 1104,00163.00 Description WELDMENT TANK, CBS-2252, LASER TANK GASKET - NG HEATER PLATE, ONE ELEMENT WELDMENT TANK HEATER BRACKET, NG-2232 LEVEL AND TEMP PROBE GROMMET GROMMET, SILICONE, 11.4mm ID PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG FITTING, ELBOW, GROMMET, .625" FITTING, STRAIGHT, GROMMET, .625" FITTING, COLD WATER INLET, GROMMET DESIGN ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC ASSEMBLY, IMMERSION HEATER, 4000W, 240VAC ASSEMBLY, IMMERSION HEATER, 5000W, 240VAC THERMOSTAT, SINGLE SHOT, SCREW CONNECTIONS, 240V/25A, WASHER, #6 SCREW , INTL TOOTH LOCKWASHER
1 2 3 4 5 6 7 8 9 10 10 11 11 11 12 13 14	Qty 1 3 2 5 1 1 2 2 1 1 1 1 1 1 3 18 18	Part number 1114.00164.00 1024.00115.00 1114.00181.00 1024.00053.00 1024.00050.00 1112.00019.00 1102.00161.00 1023.00212.00 1023.00166.00 1107.0005.00 1107.0005.00 1107.00010.00 1053.00052.00 1083.00009.00 1084.00010.00	253 Hot Water Tank Drawing 1104.00160.00; 1104.00162.00; 1104,00163.00 Description WELDMENT TANK, CBS-2252, LASER TANK GASKET - NG HEATER PLATE, ONE ELEMENT WELDMENT TANK HEATER BRACKET, NG-2232 LEVEL AND TEMP PROBE GROMMET GROMMET, SILICONE, 11.4mm ID PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG FITTING, ELBOW, GROMMET, .500" FITTING, STRAIGHT, GROMMET, .625" FITTING, STRAIGHT, GROMMET, .625" FITTING, COLD WATER INLET, GROMMET DESIGN ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC ASSEMBLY, IMMERSION HEATER, 4000W, 240VAC THERMOSTAT, SINGLE SHOT, SCREW CONNECTIONS, 240V/25A, WASHER, #6 SCREW , INTL TOOTH LOCKWASHER NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
1 2 3 4 5 6 7 8 9 10 11 11 11 12 12 13 14 15	Qty 1 3 2 5 1 1 2 2 1 1 1 1 1 1 1 3 18 18 3	Part number 1114.00164.00 1024.00115.00 1114.00181.00 1024.00053.00 1024.00050.00 1112.00019.00 1102.00161.00 1023.00212.00 1023.00166.00 1107.00005.00 1107.00032.00 1053.00052.00 1084.00010.00 1003.00140.00	253 Hot Water Tank Drawing 1104.00160.00; 1104.00162.00; 1104,00163.00 Description WELDMENT TANK, CBS-2252, LASER TANK GASKET - NG HEATER PLATE, ONE ELEMENT WELDMENT TANK HEATER BRACKET, NG-2232 LEVEL AND TEMP PROBE GROMMET GROMMET, SILICONE, 11.4mm ID PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG FITTING, ELBOW, GROMMET, .500" FITTING, STRAIGHT, GROMMET, .625" FITTING, STRAIGHT, GROMMET, .625" FITTING, COLD WATER INLET, GROMMET DESIGN ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC ASSEMBLY, IMMERSION HEATER, 4000W, 240VAC ASSEMBLY, IMMERSION HEATER, 5000W, 240VAC THERMOSTAT, SINGLE SHOT, SCREW CONNECTIONS, 240V/25A, WASHER, #6 SCREW , INTL TOOTH LOCKWASHER NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED ALUMINUM BRACKET FOR SSR
1 2 3 4 5 6 7 8 9 10 11 11 11 12 13 14 15 16	Qty 1 3 2 5 1 1 2 2 1 1 1 1 1 3 18 18 18 3 3 3	Part number 1114.00164.00 1024.00115.00 1114.00181.00 1024.00053.00 1024.00050.00 1112.00019.00 1102.00161.00 1023.00212.00 1023.00203.00 1023.00166.00 1107.00005.00 1107.00010.00 1053.00052.00 1084.00010.00 1003.00140.00 1052.00033.00	253 Hot Water Tank Drawing 1104.00160.00; 1104.00162.00; 1104,00163.00 Description WELDMENT TANK, CBS-2252, LASER TANK GASKET - NG HEATER PLATE, ONE ELEMENT WELDMENT TANK HEATER BRACKET, NG-2232 LEVEL AND TEMP PROBE GROMMET GROMMET, SILICONE, 11.4mm ID PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG FITTING, ELBOW, GROMMET, .500" FITTING, STRAIGHT, GROMMET, .625" FITTING, STRAIGHT, GROMMET, .625" FITTING, COLD WATER INLET, GROMMET DESIGN ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC ASSEMBLY, IMMERSION HEATER, 4000W, 240VAC ASSEMBLY, IMMERSION HEATER, 4000W, 240VAC THERMOSTAT, SINGLE SHOT, SCREW CONNECTIONS, 240V/25A, WASHER, #6 SCREW, INTL TOOTH LOCKWASHER NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED ALUMINUM BRACKET FOR SSR RELAY, SOLID STATE, 50A/480VAC, W/BUILD IN VARISTOR
1 2 3 4 5 6 7 8 9 10 11 11 11 12 13 14 15 16 17	Qty 1 3 2 5 1 1 2 2 1 1 1 2 2 1 1 1 3 18 18 18 3 3 6 1	Part number 1114.00164.00 1024.00115.00 1114.00181.00 1024.00053.00 1024.00050.00 1112.00019.00 1102.00161.00 1023.00212.00 1023.00203.00 1023.00166.00 1107.00052.00 1053.00052.00 1083.0009.00 1003.00140.00 1052.00033.00	253 Hot Water Tank Drawing 1104.00160.00; 1104.00162.00; 1104,00163.00 Description WELDMENT TANK, CBS-2252, LASER TANK GASKET - NG HEATER PLATE, ONE ELEMENT WELDMENT TANK HEATER BRACKET, NG-2232 LEVEL AND TEMP PROBE GROMMET GROMMET, SILICONE, 11.4mm ID PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG FITTING, ELBOW, GROMMET, .500" FITTING, ELBOW, GROMMET, .500" FITTING, STRAIGHT, GROMMET, .625" FITTING, COLD WATER INLET, GROMMET DESIGN ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC ASSEMBLY, IMMERSION HEATER, 4000W, 240VAC ASSEMBLY, IMMERSION HEATER, 5000W, 240VAC THERMOSTAT, SINGLE SHOT, SCREW CONNECTIONS, 240V/25A, WASHER, #6 SCREW, INTL TOOTH LOCKWASHER NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED ALUMINUM BRACKET FOR SSR RELAY, SOLID STATE, 50A/480VAC, W/BUILD IN VARISTOR STANDOFF, 1/4" HEX
1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 12 13 14 15 16 17 18	Qty 1 3 2 5 1 1 2 2 1 1 1 1 1 1 1 3 18 18 3 3 6	Part number 1114.00164.00 1024.00115.00 1114.00181.00 1024.00053.00 1024.00050.00 1112.00019.00 1102.00161.00 1023.00212.00 1023.00203.00 1023.00166.00 1107.00032.00 1053.00052.00 1084.00010.00 1003.00140.00 1052.00033.00 1044.00042.00 1044.00004.00	253 Hot Water Tank Drawing 1104.00160.00; 1104.00162.00; 1104.00163.00 Description WELDMENT TANK, CBS-2252, LASER TANK GASKET - NG HEATER PLATE, ONE ELEMENT WELDMENT TANK HEATER BRACKET, NG-2232 LEVEL AND TEMP PROBE GROMMET GROMMET, SILICONE, 11.4mm ID PROBE WELDMENT, WATER LEVEL 2.600" LG PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG FITTING, ELBOW, GROMMET, .500" FITTING, STRAIGHT, GROMMET, .625" FITTING, STRAIGHT, GROMMET, .625" FITTING, COLD WATER INLET, GROMMET DESIGN ASSEMBLY, IMMERSION HEATER, 3000W, 240VAC ASSEMBLY, IMMERSION HEATER, 4000W, 240VAC ASSEMBLY, IMMERSION HEATER, 5000W, 240VAC THERMOSTAT, SINGLE SHOT, SCREW CONNECTIONS, 240V/25A, WASHER, #6 SCREW, INTL TOOTH LOCKWASHER NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED ALUMINUM BRACKET FOR SSR RELAY, SOLID STATE, 50A/480VAC, W/BUILD IN VARISTOR STANDOFF, 1/4" HEX LABEL, DANGER, HIGH VOLTAGE

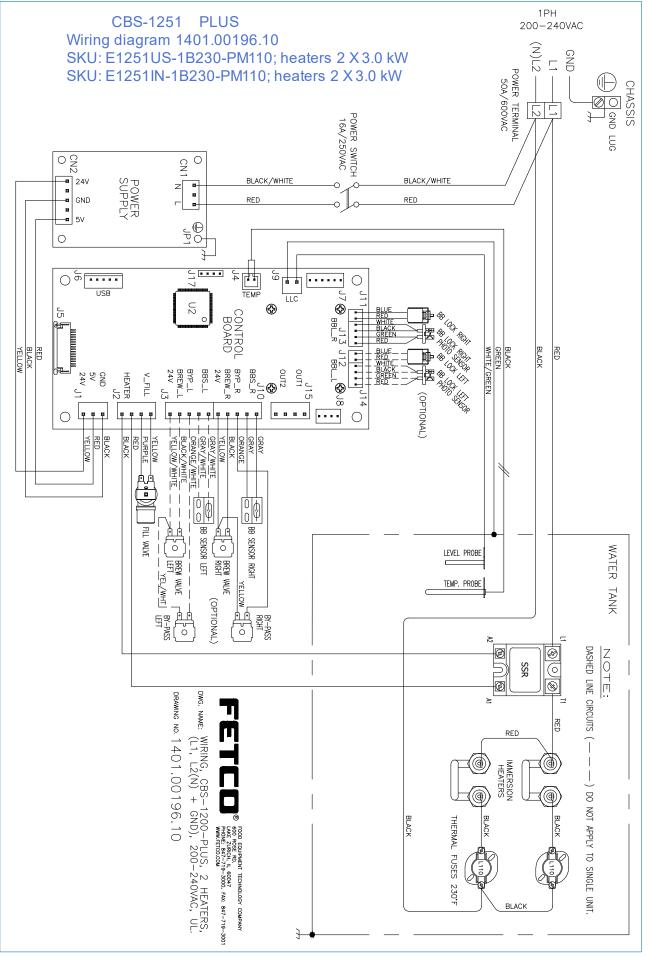
CBS-2151; CBS-1252 and CBS-1253 1102.00450.00 QUICK CONNECT SRAYHEAD ASSEMBLY Ref# Qty Part number Description
111023.00341.00BASE, QUICK CONNECT SPRAY HEAD
2 1 1102.00113.00 SWITCH, REED, ASSEMBLY
3 3 1023.00342.00 QUICK CONNECT CLIP
4 1 1102.00043.00 CASCADE SPRAY DOME, CBS-2050/60'S
5 2 1057.00076.00 VALVE ASSEMBLY, COMPLETE, NG, DELTROL (interchangeable with 1057.00078.00)
5 2 1057.00078.00 VALVE ASSEMBLY, COMPLETE, NG, RPE (interchangeable with 1057.00076.00) 6 2 1024.00107.00 O-RING, 1 3/16" OD X 1 1/16" ID X 1/16" TH, BYPASS SEAL
6 2 1024.00107.00 O-RING, 1 3/16" OD X 1 1/16" ID X 1/16" TH, BYPASS SEAL 7 1 1024.00108.00 O-RING, 5 11/16"OD X 5 1/2" ID X 3/32" TH, BREW SEAL
8 1 1023.00369.00 ORIFICE INSERT, QUICK CONNECT, 3/16" HOLE
9 1 1023.00343.00 VENT INSERT, QUICK CONNECT
10 2 1024.00106.00 O-RING, 13/16"OD X 11/16"ID X 1/16" TH, FOR QUICK CONNECT
11 1 1024.00098.00 VENT TUBE, CBS- EXTRACTOR SERIES
12 1 1023.00344.00 PLUG INSERT, QUICK CONNECT

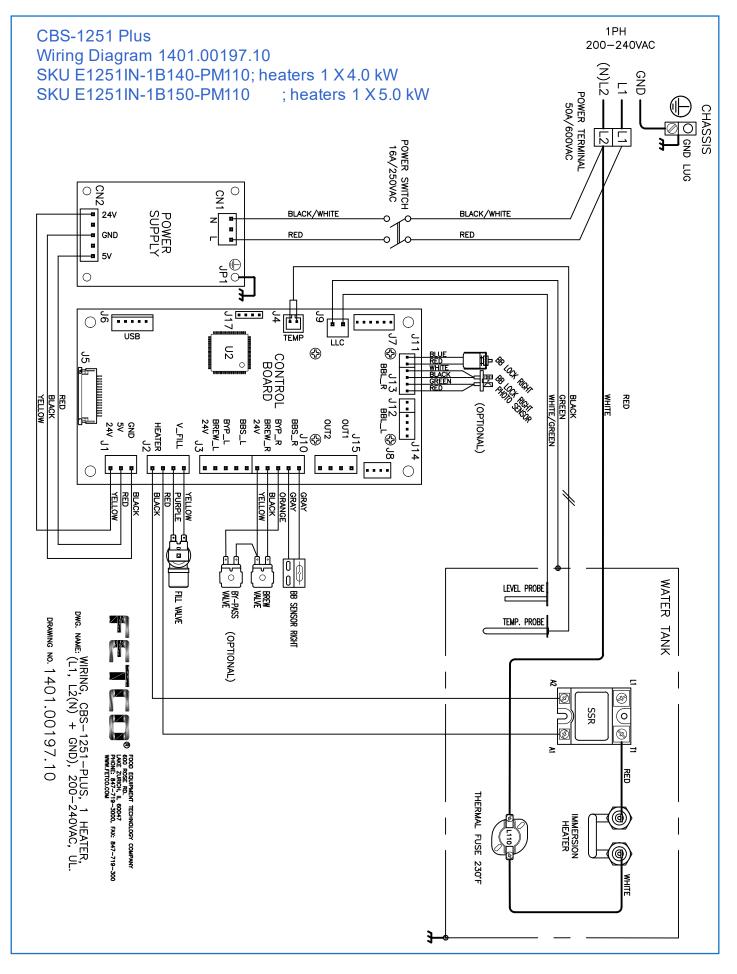
Brew Baskets

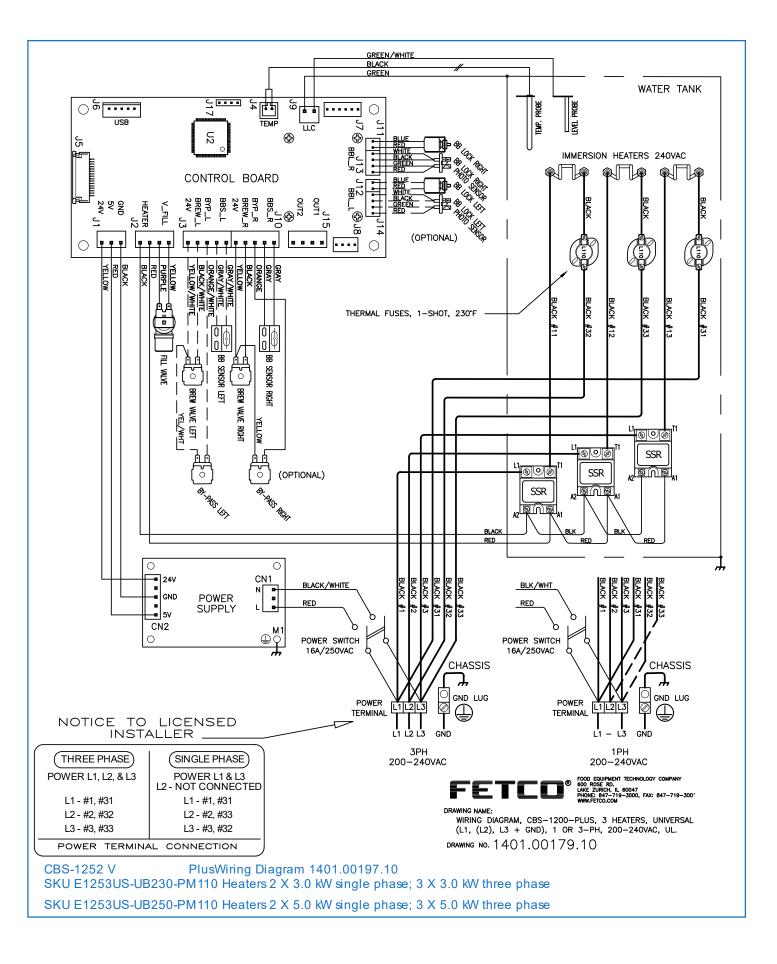


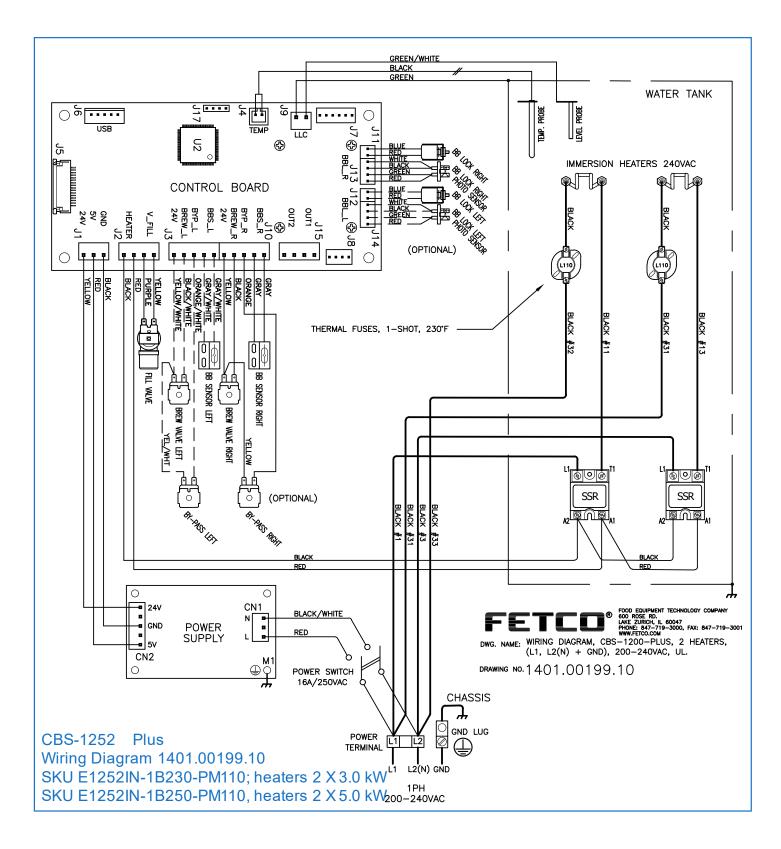


Wiring Diagrams









User Guide & Operator instructions P213 REV001 FEBURARY 2023

