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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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 1¹/₂ 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:

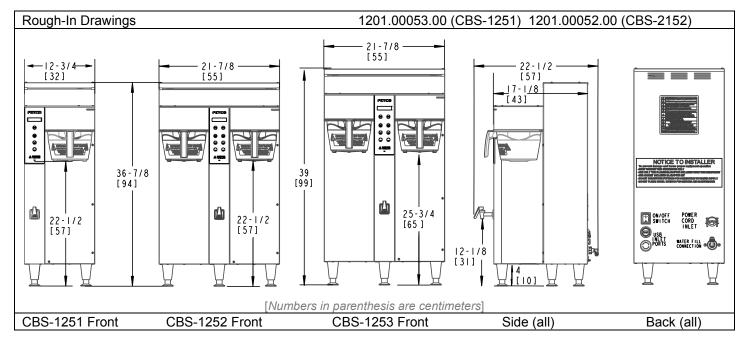
First batch 1½ gal: 6:30 minutes=[5 minute brew time + 1.30 minute drip delay] + 15% Bypass Second batch-1 gallon: 5:30 minutes=[4 minute brew time + 1.30 minute drip delay] + 0% Bypass

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	d Capacities								
Model	Height	Width	Depth	Water tank	Empty	Filled	Shipping	Shipping	
Model	rieigiit	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	Browers ship with plastic brow backets		
Calibrated for	or	Calibrated	l for	15" X 5 ½ "-	15" X 5 1/2 "– standard		Brewers ship with plastic brew baskets. See page 25 for optional brew baskets		
1 ¹ / ₂ gallons/	6 liters	2 gallons/	8 liters	Or use FETCO # F001					



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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 1 ¹ / ₂ Gallon-6 Liter Coffee Brewers Domestic and International models Electrical and Output Specifications All brewers have terminal block electrical utility connection 50Hz or 60Hz									
on Voltage	Phase	Wires	KW	Amp Draw	Brew-Volume/Hour						
V 208-240	1	2+G	4.5-6.0	22.2-25.5	15.0 gal/57 liters						
V 208-240	1	2+G	4.5-6.0	22.2-25.5	15.0 gal/57 liters						
V 200-240	1	2+G	2.8-4.0	14.4-17.2	10.6 gal/40.3 liters						
V 200-240	1	2+G	3.5-5.0	17.9-21.3	13.3 gal/50.4liters						
V 200-240	1	2+G	4.2-6.0	21.3-25.5	15.0 gal/57 liters						
	Voltage W 208-240 W 208-240 W 200-240 W 200-240	Voltage Phase W 208-240 1 W 208-240 1 W 200-240 1 W 200-240 1	Voltage Phase Wires W 208-240 1 2+G W 208-240 1 2+G W 200-240 1 2+G W 200-240 1 2+G W 200-240 1 2+G	ion Voltage Phase Wires KW W 208-240 1 2+G 4.5-6.0 W 208-240 1 2+G 4.5-6.0 W 200-240 1 2+G 2.8-4.0 W 200-240 1 2+G 3.5-5.0	ion Voltage Phase Wires KW Amp Draw W 208-240 1 2+G 4.5-6.0 22.2-25.5 W 208-240 1 2+G 4.5-6.0 22.2-25.5 W 200-240 1 2+G 2.8-4.0 14.4-17.2 W 200-240 1 2+G 3.5-5.0 17.9-21.3						

CBS-1251PLUS Single 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	ĸw	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	

CBS-1252PLUS Twin 1½ 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 Selectable (1 or 3 phase)	2 X 3.0 kW	208-240	1	2+G	4.5-6.0	22.2-25.5	15.9 gal/60.4 liters		
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		

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/Hou									
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-1253PLU	CBS-1253PLUS Twin 2 Gallon-8 Liter Coffee Brewers Domestic and International models										
Electrical and Output S	pecifications	All brewers	have ter	minal blo	ck electrical	utility connec	tion 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 S	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						tion 50Hz or 60Hz		
Configuration Codes	Voltage	Phase	Wires	KW	Amp Draw	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	: SK	U E1:	253U	S-UB2	230-PN	1110		SKU NL	JMBER	IDEN	ITIFIC	ATION	KEY			
Product Line	Ŀ	evel	Fa	mily	Regi	on ID	Phase	Voltage Range	# Heaters	<u>Indi</u> Heater	<u>vidual</u> 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	M	01	1	0
E=extractor					US =l Sta	Jnited tes	1	A = 100-120	1		1.5	P=plastic	M=manual	1=Yes	1=Yes	0=Terminal Block
		PLUS eries	-	i1= le side	IN Interna	= ational	2	B = 200-240	2		1.7	M=metal	A=automatic	0=no	0=no	1= NEMA 5-15P
				i2= I 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	4.0					4=NEMA 6-30P
			dua	i3= Il side jallon				X=120 or 240 Dual Voltage			5.0					5= CEE 7/7 Schuko
																6=UK1-13P 7= AUSTRALIAN

Enter Programming

STOP BUTTON

FETCO

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

CBS-1252

ver

2.0.210317

Batch Program

А

STOP

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:

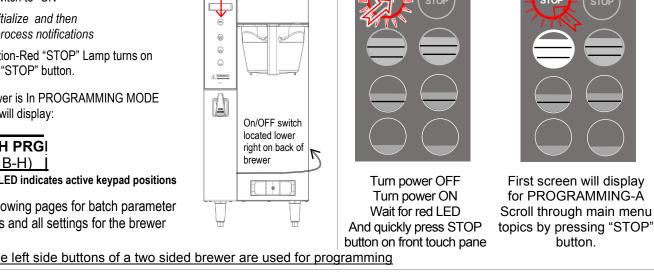
IBATCH PRGI (or B-H) IΔ

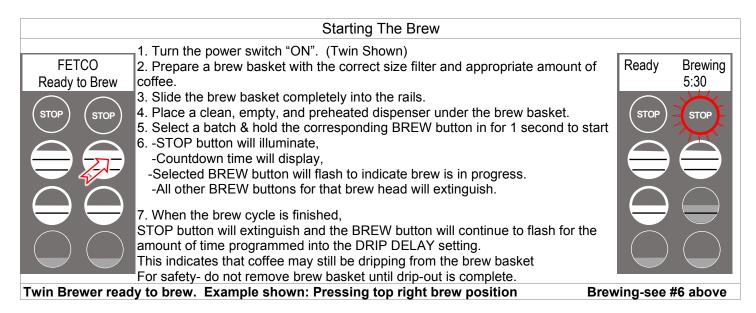
-Illuminated LED indicates active keypad positions

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

button. 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 Prewet Percent B11 D13 LED Brightness % Rt Brews [T] A23 Eco Idle Time F12 Erase Error Log 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

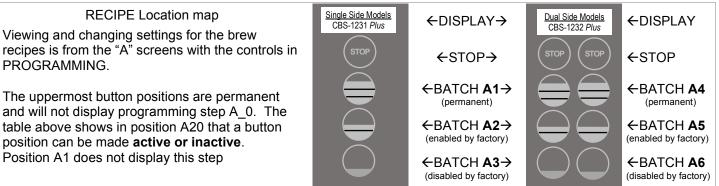




RECIPE Location map

Position A1 does not display this step

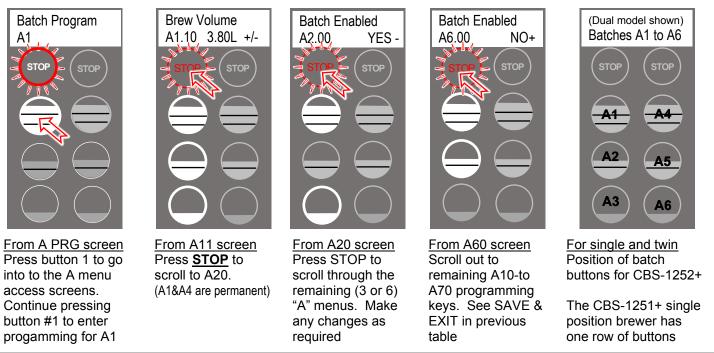
PROGRAMMING.



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



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			atch on a single brew		for default A1 & A2 batches
POSITION	Program Items		Programming Range		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 (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
A1.50	Bypass Percent	CBS-1251:10% CBS-1252/3:15%	0% – 40%	1%	Diverts brewing water from brew process
A1.60 This is a Safety Feature	Drip Delay	1:30 mm:ss	0:30 – 6:00 Min.		Time that brew basket remains locked during final drip-out →Drip delay remains "ON" for 1:30 minutes if STOP is pressed during brew†
A2.00	BATCH ENABLED	YES (Active)	Middle and Bottom batches A2,3,5,6	Batch on or off	Batches may be individually 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 CBS-2153 only	2 gallons 9.1 liters	0.51 to 2.66 gal 1.93 to 10.1L	0.01G 0.05L	
A2.20	Brew Time	4.00 minutes	2:00 - 12:00	0.30	Default total brew time is 5:30 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 This is a Safety Feature	Drip Delay	1:30 mm:ss	0:30 – 6:00 Min.		Time that brew basket remains 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	NOTE: 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"		
(FACTORY DEFAULT FOR BREWER) "BREW at TEMP:	Hot water tank not	Ξ
-Batch will not start if tank temperature	at brew temp 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.	$\bigcirc \bigcirc$
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: TEXT: HEATING →Tank above 87°C/189°F-will	tank temperature	
allow brew at low temperature.	is at setpoint. Buttons will	
Coffee flavor may be affected	illuminate and	
TEXT: L. HEAT→Tank above 77°C/170°F-	"READY" will be	
will allow brew at low temperature.	displayed	
Coffee flavor will be noticeably affected		
USER SELECTABLE OPTION: BRE		
(Not recommended) Unit will operate a		е
Allows brewing at any temperature a Below 70°C/170°F The brewer will displa		

	Chart to		r altitude fo ater temper	or boiling po ature.	pint
[ft]	[m]	Suggested Setting[°F]	Suggested Boiling Setting[°F] point[°F]		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				
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	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	Y 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	Factory set Default	Programming Range	Increments	Notes
E1	Ready Temp. Offset	-3°F -2°C	-2° to -9°F -1° to -5° C	1°F 1°C	Compensates output to measured temperature
E2	LLC Sensitivity	NORMAL ("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 <u>Range</u> ACTUAL VOLUME Left Brew Valve FR 0.95 0.80G to 1.09G **X** SETTING = NEW SETTING PROGRAMMED VOLUME **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	Menu	Software & Co	de View and Setting	s	
POSITION	Program Items	Factory set Default	Programming Range	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	251;1252;1253 Scroll to brewer		NOTE: Overwrites all user settings (See below)
F4	Option Bypass	Yes	NO or YES		
F5	Option BB Lock	Yes	NO or YES	Saves	
F8	Backup to USB	NO	NO Follow prompts		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

	T CLEAR ERROR CODES UNTIL ERF act factory or specialized personnel for		RECTED
Code	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	Error found in cyclic redundancy check CRC	Restart , if still fault: reload software If not corrected :replace board
050	Short-circuit in temperature probe	Probe failure.	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.	Watch for short potting during brew cycle Investigate cause of low flow rate. (Clogged water filter)
101	Error on refill Tank did not refill within expected time. Water flow too slow from main.	Water supply flow rate is too low. (External to brewer.)	Watch for short potting during brew cycle Investigate cause of low flow rate. (Clogged water filter)
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	Heater open, high limit thermostat, or Solid State Relay (SSR) fault	Failure of heating element, SSR, high limit or low voltage	Check that ohms range of heater are between 10-80 Ω ; replace if not. Check for continuity, and if open replace high limit devices. Check if permanently closed and replace SSRs, if necessary.
202	Heater Shorted or Stuck SSR	Heater is off and equipment is heating. SSR is stuck "ON"	Check that ohms range of heater are between 10-80 Ω ; replace if not. Check permanently closed SSR may be stuck in ON mode-replace SSR. Test output on solid state relay
255	Keyboard [HID] error	Usually from longer than 10 se contact. Or faulty reassembly after service	Restart , if still fault: reload software. If mechanical: replace module
NO BSKT Insert B	rew Basket	Brew basket must be in place This is a SAFETY FEATURE	Insert brew basket into brewer rails to enable brewer

G Counte	rs Br	ewer Usage, W	Vater F	ilter Usage, and	Statistics	
				esettable; [User]=Input neede		
Position	Counter	Program items	Role	Information	Increments	Notes
		•		ust use filtered water and filter		
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	er of brews and	volumes handled. Availab	ole in BAS	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]	Dispensed volume	Galions/Liters	Total of brews and not water dispensed
G12	В	Lt Brews	[LT]	Left side brew total	Count	Total brews-Left side (CBS-1252 only)
G13	В	Lt Brews	[R]	CBS-1252	oount	
G14	В	Rt Brews	[LT]	Right side brew total	Count	Total brews-Right side
G15	В	Rt Brews	[R]	CBS-1251&CBS-1252		CBS-1251&CBS-1252
	onent use cycle		vailable ir	ADVANCED counter only (G	5)	
G20	A	Fill Cycles	[LT]	Hot water tank refill	Count	Cycles of hot water tank refill
G21	A	Fill Cycles	[R]	cycles	Jount	
G22	A	Fill Volume	[LT]	Total volume of water	Gallons/Liters	Quantity of water for brews
G23	A	Fill Volume	[R]	for all brews	Gailona/Litera	Quantity of water for DIEWS
G24	А	Lt Brew Cycles	[LT]	Left brew valve	Count	Totalized cycles of valve operation
G25	А	Lt Brew Cycles	[R]	operation on/off	Count	(CBS-1252 only)
G26	А	Lt Brew Volume	[LT]	Left brew valve flow through volume	Gallons/Liters	Totalized volume through left valve (CBS-1252 only)
G27	А	Lt Brew Volume	[R]	5		
G28	А	Rt Brew Cycles	[LT]	Right brew valve	Count	Totalized cycles of valve operation
G29	А	Rt Brew Cycles	[R]	operation on/off	Count	CBS-1251&CBS-1252
G30	Α	Rt Brew Volume	[LT]	Right brew valve	O allana // itana	Totalized volume through right valve
G31	А	Rt Brew Volume	[R]	flow through volume	Gallons/Liters	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	А	Lt Bypass Volume	[LT]	Left bypass valve	Gallons/Liters	Totalized volume through left valve
G35	A	Lt Bypass Volume	[R]	flow through volume		(CBS-1252 only)
G36	A	Rt Bypass Cycles	[LT]	Count	Count	Totalized cycles of valve operation
G37	A	Rt Bypass Cycles	[R]			CBS-1251&CBS-1252
G38	A	Rt Bypass Volume	[LT]	Right bypass valve flow	Gallons/Liters	Totalized volume through right valve
G39	A	Rt Bypass Volume	[R]	through volume		CBS-1251&CBS-1252
G48	A	Lt BBL Cycles	[LT]	Left brew basket lock	Count	Totalized cycles of brew basket lock
G49	A	Lt BBL Cycles	[R]	flow through volume		operation (CBS-1252 only)
G50	A	Rt BBL Cycles	[LT]	Right brew basket lock	Count	Totalized cycles of brew basket lock
G51	A	Rt BBL Cycles	[R]	operation on/off		operation CBS-1251&CBS-1252
G52	A	Heater Cycles	[LT]	ON/OFF switching for	Count	Totalized cycles of heater switching
G53	A	Heater Cycles	[R]	heating elements		
G54	A	Heater On Time	[LT]	Total ON time for	Hour	Totalized heater ON time in hours
G55	A	Heater On Time	[R]	heating element		
				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		(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		(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		(CBS-1252 only)
G86	S	Batch 40 Cycles	[LT]	Menu button selection	Count	Total brews-right side top button
G87	S	Batch 40 Cycles	[R]	and activation count	Jount	CBS-1251&CBS-1252
G88	S	Batch 50 Cycles	[LT]	Menu button selection	Count	Total brews-right side middle button
C 00	S	Batch 50 Cycles	[R]	and activation count	Count	CBS-1251&CBS-1252
G89						
G89 G90	S	Batch 60 Cycles	[LT]	Menu button selection	Count	Total brews-right side bottom button

H Save & Exit Saving changes and exiting PROGRAMMING The brewer will save changes only from the "H" menu. **DO NOT** reboot brewer or toggle ON/OFF-exit as below. TO EXIT PROGRAMMING & HOW TO SAVE CONTROL SETTING CHANGES HOW TO SAVE CHANGES AND EXIT-The brewer is in PROGRAMMING mode. 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 button 2 to Press button 2, to Press STOP button Press button 1 to Press button 1 to togale to the EXITtogale 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

(SETTING B5)

(SETTING F3)

(SETTING F9)

(SETTING E10)

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)

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.
- 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:

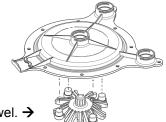
- 1. Dispose of grounds and rinse brew basket.
- 2. Never strike a brew basket or hit it against a hard surface.
 - This will damage the brew cone, and may damage the brew basket support rails
- 3. Rinse dispensers before reuse.

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.



(For Qualified Service Technicians Only)

General:

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

Electrical:

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

→See wiring diagrams on pages 29-31 for connections

Plumbing:

- 1. North America: All installations must comply with applicable federal, state, or local plumbing codes.
- 2. All Others: The water and waste piping and connections shall comply with the International Plumbing Code, International Code Council (ICC), or to the Uniform Plumbing Code (IAPMO).
- 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)
- 9. The suppled fitting is a 3/8" flare/compression fitting for 1/4" supply line. Other adaptors may be substituted.
- 10. Hand tighten the factory fitting when connecting the stub on the brewer. This will reduce stress on the internal connections and reduce the possibility of leaks developing after the install has been completed

Tank Drain

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

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

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

→Note: The CBS-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	·	
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.

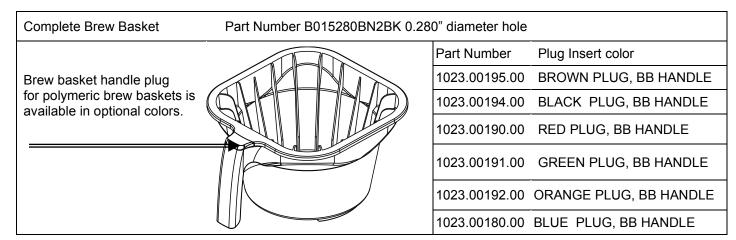
To prevent an electric shock hazard this device must be bonded to equipment in close proximity with an equipotential bonding conductor. This device is equipped with a bonding lug for this purpose and is marked with the following symbol

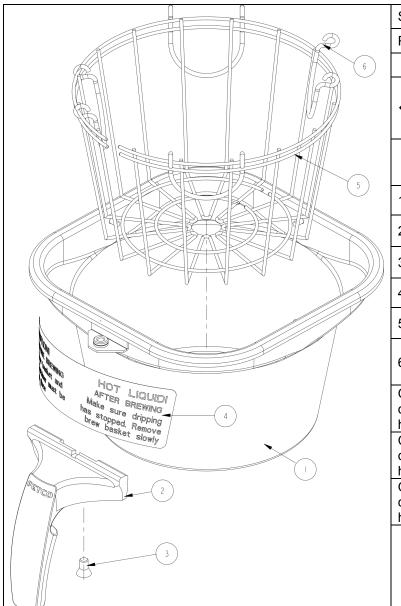


<u>/!</u>\ WARNING To reduce risk of electric shock or fire. Ŵ FETCO® Hot Beverage Equipment is for commercial use only Do not remove or open cover. No user serviceable parts inside Refer installation and service to qualified personnel. Ŷ Â Caution, disconnect from power supply before servicing Ŵ GROUND: 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 requirement Locate unit away from source of heat. Do not install or use near combustibles Â THIS APPLIANCE IS ENERGIZED WHENEVER Â IT IS CONNECTED TO A POWER SOURCE FAILURE TO COMPLY RISKS EQUIPMENT DAMAGE, PROPERTY DAMAGE, FIRE, OR SHOCK HAZARD This equipment must be installed with a backflow protection evice to comply with federal, state or local municipality codes Read the user guide before installing and operating this unit.

Labels and warnings for hot beverage equipment

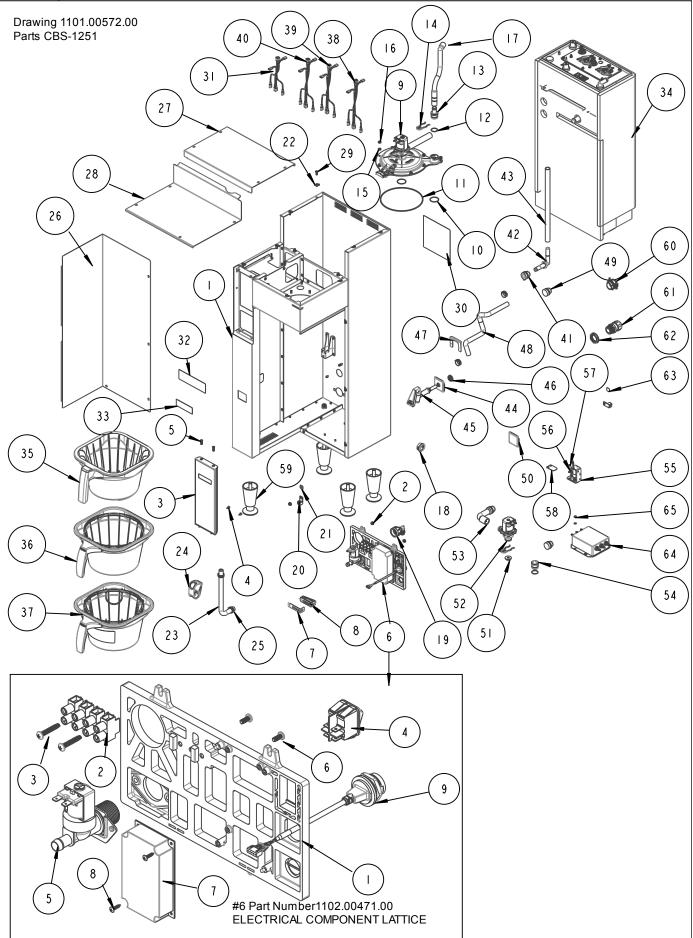
For BACK PANEL of equipment (1046.00035.00)





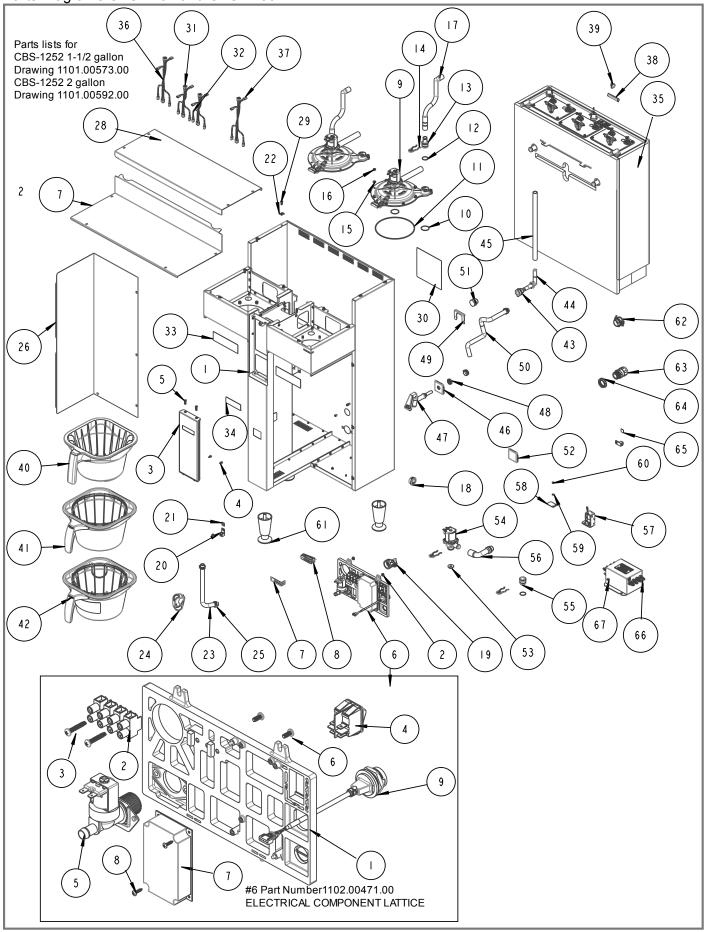
Ref#	Part Number	Description							
÷	B001280B1	Complete Stainless Steel Brew basket <u>no clips</u> (Standard)							
	B002280B1	Complete Stainless Steel Brew basket <u>with</u> clips (Optional)							
1	1112.00058.00	BB brew cone WLDMNT							
2	1046.00025.00	BREW BASKET WARNING LABEL							
3	1082.00040.00	SCREW, 1/4-20 X .5, FL HD, PH., W/NYLN							
4	1009.00005.00	WIRE BASKET							
5	1102.00064.00	HANDLE W/MAGNET ASY, BLACK							
6	1009.00003.00	CLIP, WIRE BASKET, NOTE!: Requires <u>4 clips</u>							
Optional colored handle	1102.00065.00	HANDLE W/MAGNET ASY, RED							
Optional colored handle	1102.00066.00	HANDLE W/MAGNET ASY, GREEN							
Optional colored handle	1102.00067.00	HANDLE W/MAGNET ASY, ORANGE							

Parts Diagram CBS-1251



Ref Qty Part Number Description Drawing 1101.00572.00, CBS-1251 1 1 1111.0010.00 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 X 3/8 LG, TRUSS HD PHIL, SHEET MTL 6 1 1102.00471.00 ELECTRICAL COMPONENT LATTICE, NEXT GEN XV+ 6-1 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 1082.00024.00 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	
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8 1 1023.00390.00 LENS, LIGHT BAR, BLACK 9 1 1102.00450.00 QUICK CONNECT SRAYHEAD ASSEMBLY, BASIC [See Page 24 for expanded dr 10 2 1024.00107.00 O-RING, 1 3/16" OD X 1 1/16" ID X 1/16" TH, BYPASS SEAL 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	awing]
9 1 1102.00450.00 QUICK CONNECT SRAYHEAD ASSEMBLY, BASIC [See Page 24 for expanded dr 10 2 1024.00107.00 O-RING, 1 3/16" OD X 1 1/16" ID X 1/16" TH, BYPASS SEAL 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	awing]
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	
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13 1 1023.00343.00 VENT INSERT, QUICK CONNECT 14 2 1023.00342.00 QUICK CONNECT CLIP	
14 2 1023.00342.00 QUICK CONNECT CLIP	
15 10 1083.00010.00 WASHER, #10 SCREW WINEOPRENE-BONDED SEAL	
17 1 1024.00098.00 VENT TUBE, 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"DD X 5/16"ID X 25.00"LG	
24 1 1086.0009.00 CLAMP, 3/4" MAX TUBE OD FLOW CONTROL	
25 4 1086.0003.00 UNICLAMP, 15.9 HOSE OD CLAMP	
26 1 1112.00529.00 WELDMENT FRONT 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 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 pages for expan	nded drawing]
34 1 1104.00166.00 TANK ASSEMBLY, CBS-2251, 1 X 5KW/240VAC	
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	
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	
30 1 B001200 HB AGG1, 10 × 0 ; 0.200 HAHOLE, 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	
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	
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.	
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	
50 1 1023.00349.00 HOT WATER INSERT, NO FAUCET 51 1 1003.00360.00 OPIE/CE INSERT, OU/CK CONNECT 3/16" HOLE	
51 1 1023.00369.00 ORIFICE INSERT, QUICK CONNECT, 3/16" HOLE 52 1 1057.00076.00 VALVE ASSEMBLY, COMPLETE, NG, DELTROL	
52 1 1057.00076.00 VALVE ASSEMBLT, COMPLETE, NG, DELTROL 53 1 1029.00042.00 BYPASS L-TUBE, SILICONE, 2200 SINGLE SERIES	
55 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 1084.00010.00 NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED	
58 1 1003.00259.00 BRACKET, BREW BASKET LOCK COVER 50 4 4032.00002.00 1.50 FLANOF.FOOT.4111011	
59 4 1073.00007.00 LEG, FLANGE FOOT, 4" HIGH 60 1 1086.00008.00 CONNECTOR, CLAMP, NON-METALLIC CABLE, 3/4"	
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



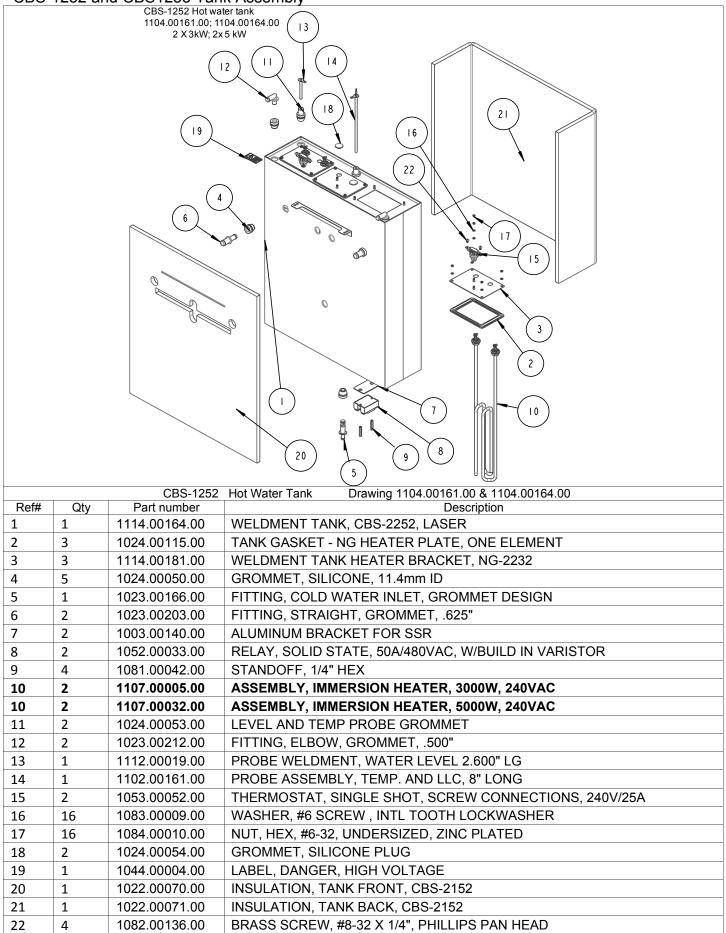
REF	QTY	Part number	Description Drawing 1101.00573.00, 1101.00059.00 Parts CBS-1252 and applies to CBS-1253
1	1	1111.00099.00	WELDMENT BODY, CBS-2252 11/2 gallon brewer only
1	1	1111.00114.00	WELDMENT BODY, CBS-2252 2 gallon brewer only
2	6	1084.00051.00	NUT, HEX LOCKWASHER, #8-32, 18-8 ST. STL.
3 4	1	1102.00470.00 1082.00029.00	FRONT PANEL ASSY, DOUBLE, PLUS SERIES
5	2	1082.00029.00	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 6-6	4 2	1057.00043.00 1082.00010.00	SOLENOID VALVE, 5.5L/min, 180 DEG, 24VDC 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
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, 3/16"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 18	2	1024.00098.00 1086.00004.00	VENT TUBE, CBS- EXTRACTOR SERIES BUSHING, SNAP, 1" MOUNTING HOLE
18	2	1102.00243.00	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
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	1086.00009.00	CLAMP, 3/4" MAX TUBE OD FLOW CONTROL
25 26	4	1086.00003.00 1112.00529.00	UNICLAMP, 15.9 HOSE OD CLAMP WELDMENT FRONT COVER, CBS-2250 11/2 gallon brewer and 2 gallon brewer
27	1	1001.00352.00	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 33	1	1402.00097.11 1046.00003.00	WIRE HARNESS ADDITION, CBS-1252, LOW AMP, UNIVERSAL LABEL, CSD WARNING, 1.5" X 5.0"
34	1	1041.00033.00	BLACK EXTRACTOR PLUS LABEL, LASER ENGRAVED
35	1	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 36	1	1104.00164.00 1402.00112.10	TANK ASSEMBLY, CBS-2252, 2 X 5KW/240VAC [See additional pages for expanded drawing] WIRE HARNESS, CBS-1252/61, HIGH AMP, 1 OR 3PH, 3 HEATERS, UL
37	1	1402.00120.10	WIRE HARNESS, 3 HEATER, HIGH AMP, 3L-N-PE, 220/380-240/415, INTL/CE
38	1	1022.00032.00	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 43	1	B002280B1BB 1024.00111.00	ASSY, 16" X 6", 0.280" DIA HOLE, BLACK GROMMET, SILICONE, W/ POSITION TABS
43	1	1023.00362.00	FITTING VENT, ELBOW, .375" X .375", SELF POSITIONING
45	1	1013.00131.00	TUBE, 304SS, .625OD X .065 WALL X 11-1/2" LG.
46	1	1023.00348.00	HOT WATER INSERT, MANUAL FAUCET
47	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	
50 51	1	1025.00120.00 1024.00051.00	TUBE, 9/16"OD X 5/16"ID X 13.00"LG GROMMET, SILICONE, BLANK
52	1	1023.00349.00	HOT WATER INSERT, NO FAUCET
53	1	1023.00369.00	ORIFICE INSERT, QUICK CONNECT, 3/16" HOLE
54	1	1057.00076.00	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 58	1	1102.00219.00 1003.00259.00	ASSEMBLY, BB LOCKER, 24VDC
58 59	2	1003.00259.00	BRACKET, BREW BASKET LOCK COVER WASHER, #6 SCREW, INTL TOOTH LOCKWASHER
60	1	1084.00010.00	NUT, HEX, #0-32, UNDERSIZED, ZINC PLATED
61	3	1073.00007.00	LEG, FLANGE FOOT, 4" HIGH
62	1	1086.00008.00	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 1044.00013.00	LOCKNUT, SKINTOP, 3/4" NPT, BLACK HEX
			LABEL EQUIPOTENTIALITY, CE
65	1		
	1 1 1	1052.00050.00 1084.00012.00	EMI FILTER, 25A, 250/440VAC, 50/60Hz NUT, HEX, #6-32 MACHINE SCREW

CBS-1251 Tank Assembly

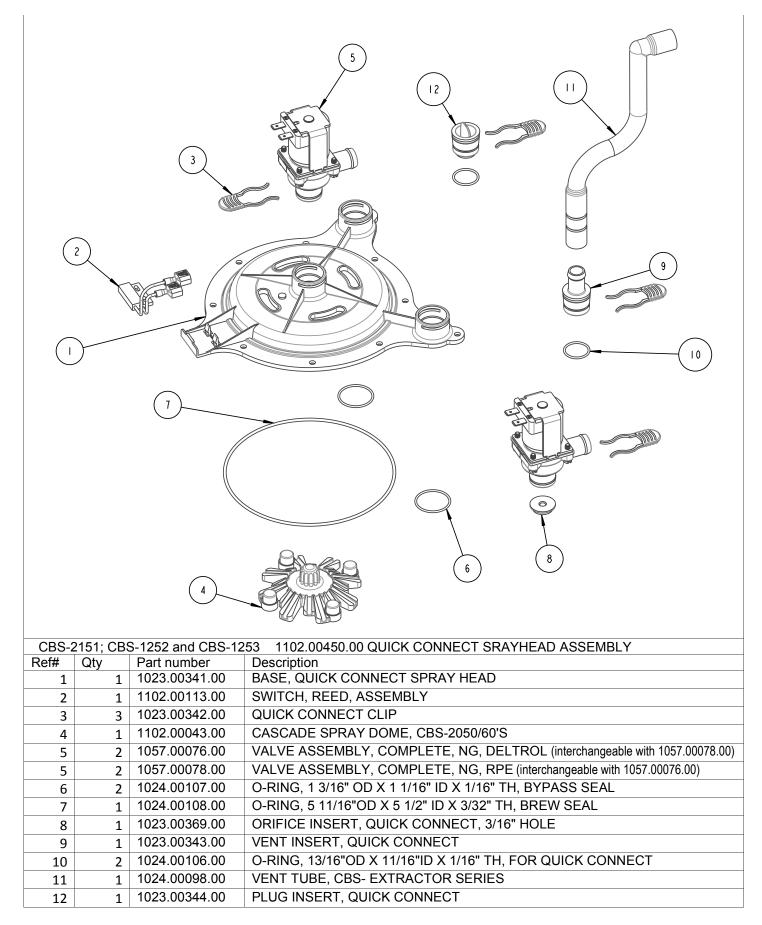
000	-1231	ank Assembly	
			I 4 I 3 CBS-1251 Hot water tank 1104.00165.00 and 1104.00166.00 1 X 4 kW & 1 x 5 kW
		18	
		- \	
		, ,	
		0	
		0	
		(20)	
REF	QTY	TANK ASSY, CBS-12 Part number	51 Single Heater Drawing number 1104.000165.00 & 1104.000166.00 Description
1	1	1114.00172.00	WELDMENT, TANK, CBS-2251
2	1	1024.00114.00	TANK GASKET - NG HEATER PLATE, TWO ELEMENT
3	1	1114.00184.00	WELDMENT TANK HEATER BRACKET, NG-2231, SINGLE
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	1	1003.00140.00	ALUMINUM BRACKET FOR SSR
8	1	1052.00033.00	RELAY, SOLID STATE, 50A/480VAC, W/BUILD IN VARISTOR
9	2	1081.00042.00	STANDOFF, 1/4" HEX
10	1	1107.00010.00	HEATER ASSEMBLY, IMMERSION 4kW/240VAC
10	1	1107.00032.00	HEATER ASSEMBLY, IMMERSION, 5kW/240VAC
11	2	1024.00053.00	LEVEL AND TEMP PROBE GROMMET
12	1	1023.00212.00"	FITTING, ELBOW, GROMMET, .500
13	1	1112.00019.00	PROBE WELDMENT, WATER LEVEL 2.600" LG
14	1	1102.00161.00	PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG
15	1	1053.00052.00	THERMOSTAT, SINGLE SHOT, SCREW CONNECTIONS, 240V/25A
16	8	1083.00009.00	WASHER, #6 SCREW, INTL TOOTH LOCKWASHER
17	8	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
18	1	1044.00004.00	
19	1	1024.00051.00	GROMMET, SILICONE, BLANK
20	1	1022.00068.00	INSULATION, TANK FRONT, CBS-2151
21	1	1022.00069.00	INSULATION, TANK BACK, CBS-2151
22	2	1082.00136.00	BRASS SCREW, #8-32 X 1/4", PHILLIPS PAN HEAD

		CBS-1251 Ho 1104.00167.0 2 X 2.3 KW & 6	
		(20)	
TANK	ASSY.	CBS-1251 Two Heate	r Drawing number 1104.000167.00 & 1104.00168.00
REF	QTY	Part number	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	1024.00053.00	LEVEL AND TEMP PROBE GROMMET
12	1	1023.00212.00	FITTING, ELBOW, GROMMET, .500"
13	1	1112.00019.00	PROBE WELDMENT, WATER LEVEL 2.600" LG
14	1	1102.00161.00	PROBE ASSEMBLY, TEMP. AND LLC, 8" LONG
15	2	1053.00052.00	THERMOSTAT, SINGLE SHOT, SCREW CONNECTIONS, 240V/25A
16	10	1083.00009.00	WASHER, #6 SCREW , INTL TOOTH LOCKWASHER
17	10	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
18	1	1024.00051.00	GROMMET, SILICONE, BLANK
19	1	1044.00004.00	LABEL, DANGER, HIGH VOLTAGE
20	1	1022.00068.00	INSULATION, TANK FRONT, CBS-2151
21	1	1022.00069.00	INSULATION, TANK BACK, CBS-2151
22	4	1082.00136.00	BRASS SCREW, #8-32 X 1/4", PHILLIPS PAN HEAD

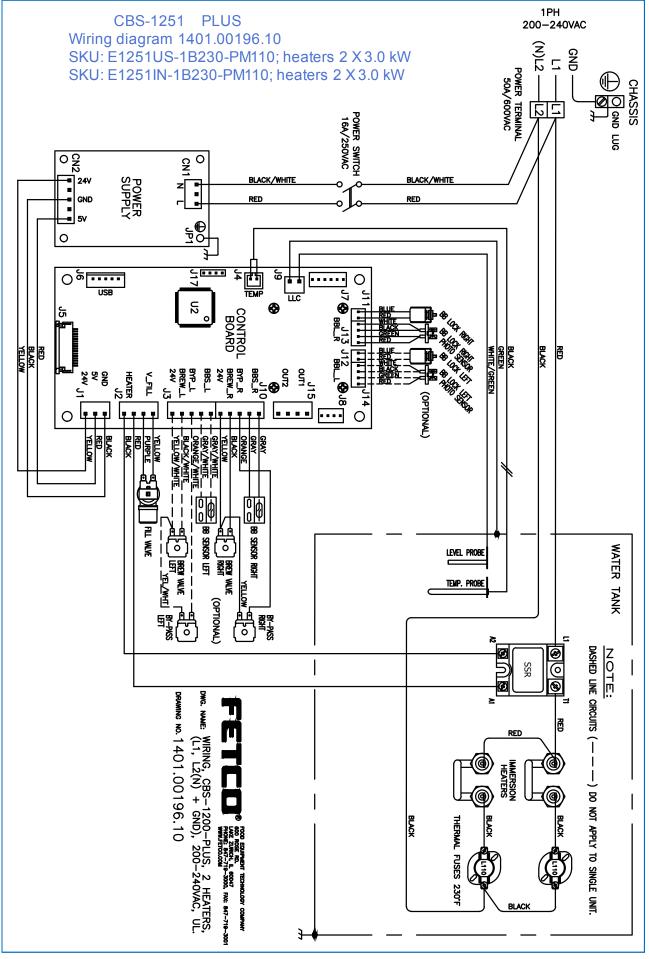
CBS-1252 and CBS1253 Tank Assembly



		e e e e e e e e e e e e e e	
	(CBS-1252 and CBS-13	253 Hot Water Tank Drawing 1104.00160.00; 1104.00162.00; 1104,00163.00
			Description
Ref#	Qty	Part number	Decomption
Ref# 1	Qty 1	1114.00164.00	WELDMENT TANK, CBS-2252, LASER
		1114.00164.00 1024.00115.00	WELDMENT TANK, CBS-2252, LASER TANK GASKET - NG HEATER PLATE, ONE ELEMENT
1	1	1114.00164.001024.00115.001114.00181.00	WELDMENT TANK, CBS-2252, LASER TANK GASKET - NG HEATER PLATE, ONE ELEMENT WELDMENT TANK HEATER BRACKET, NG-2232
1 2	1 3	1114.00164.001024.00115.001114.00181.001024.00053.00	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	1 3 3	1114.00164.001024.00115.001114.00181.001024.00053.001024.00050.00	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	1 3 3 2	1114.00164.001024.00115.001114.00181.001024.00053.001024.00050.001112.00019.00	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	1 3 3 2 5	1114.00164.001024.00115.001114.00181.001024.00053.001024.00050.00	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	1 3 3 2 5 1	1114.00164.001024.00115.001114.00181.001024.00053.001024.00050.001112.00019.00	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	1 3 3 2 5 1 1	1114.00164.001024.00115.001114.00181.001024.00053.001024.00050.001112.00019.001102.00161.001023.00212.001023.00203.00	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	1 3 3 2 5 1 1 2 2	1114.00164.001024.00115.001114.00181.001024.00053.001024.00050.001112.00019.001102.00161.001023.00212.00	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	1 3 2 5 1 1 2 2 2	1114.00164.001024.00115.001114.00181.001024.00053.001024.00050.001112.00019.001102.00161.001023.00212.001023.00203.00	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	1 3 2 5 1 1 2 2 2 1	1114.00164.001024.00115.001114.00181.001024.00053.001024.00050.001112.00019.001102.00161.001023.00212.001023.00203.001023.00166.00	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 11	1 3 2 5 1 1 2 2 2 1 1 1	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	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 ASSEMBLY, IMMERSION HEATER, 5000W, 240VAC
1 2 3 4 5 6 7 8 9 10 11 11 11	1 3 3 2 5 1 1 2 2 1 1 1 1 1 1	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	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 11 11 11 11	1 3 3 2 5 1 1 2 2 1 1 1 1 1 1 1 1	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	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 ASSEMBLY, IMMERSION HEATER, 5000W, 240VAC
1 2 3 4 5 6 7 8 9 10 11 11 11 12	1 3 2 5 1 1 2 2 1 1 1 1 1 1 3	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 1107.00032.00 1053.00052.00	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 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
1 2 3 4 5 6 7 8 9 10 11 11 11 11 12 13	1 3 3 2 5 1 1 1 2 2 1 1 1 1 3 3 18	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 1083.00009.00	 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 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 13 14	1 3 2 5 1 2 1 2 1 1 3 18	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	 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 ASSEMBLY, IMMERSION HEATER, 5000W, 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
1 2 3 4 5 6 7 8 9 10 11 11 11 12 13 14 15	1 3 3 2 5 1 1 2 2 1 1 1 1 1 1 3 18 18 3	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 1107.0005.00 1107.00010.00 1053.00052.00 1083.0009.00 1052.00033.00 1081.00042.00	 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 ASSEMBLY, IMMERSION HEATER, 4000W, 240VAC ASSEMBLY, IMMERSION HEATER, 5000W, 240VAC 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 12 13 14 15 16	1 3 3 2 5 1 1 2 2 1 1 1 1 1 3 18 18 3 3 3	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 1107.0005.00 1107.00032.00 1053.00052.00 1084.00010.00 1052.00033.00 1044.0004.00	 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 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
1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17	1 3 3 2 5 1 1 1 2 2 1 1 1 1 3 18 18 3 3 6	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 1083.0009.00 1052.00033.00 1052.00033.00 1044.0004.00 1022.00070.00	 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 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 INSULATION, TANK FRONT, CBS-2152
1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18	1 3 3 2 5 1 1 2 2 1 1 1 2 2 1 1 1 1 3 18 18 18 3 3 6 1	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 1107.0005.00 1107.00032.00 1053.00052.00 1084.00010.00 1052.00033.00 1044.0004.00	 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 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



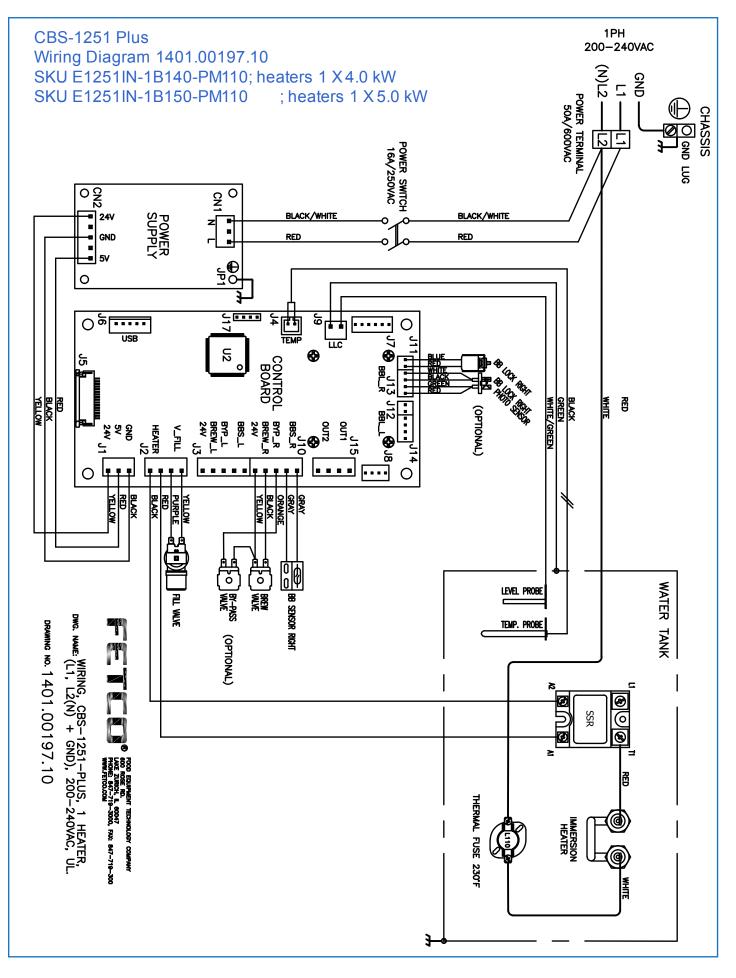
Wiring Diagrams



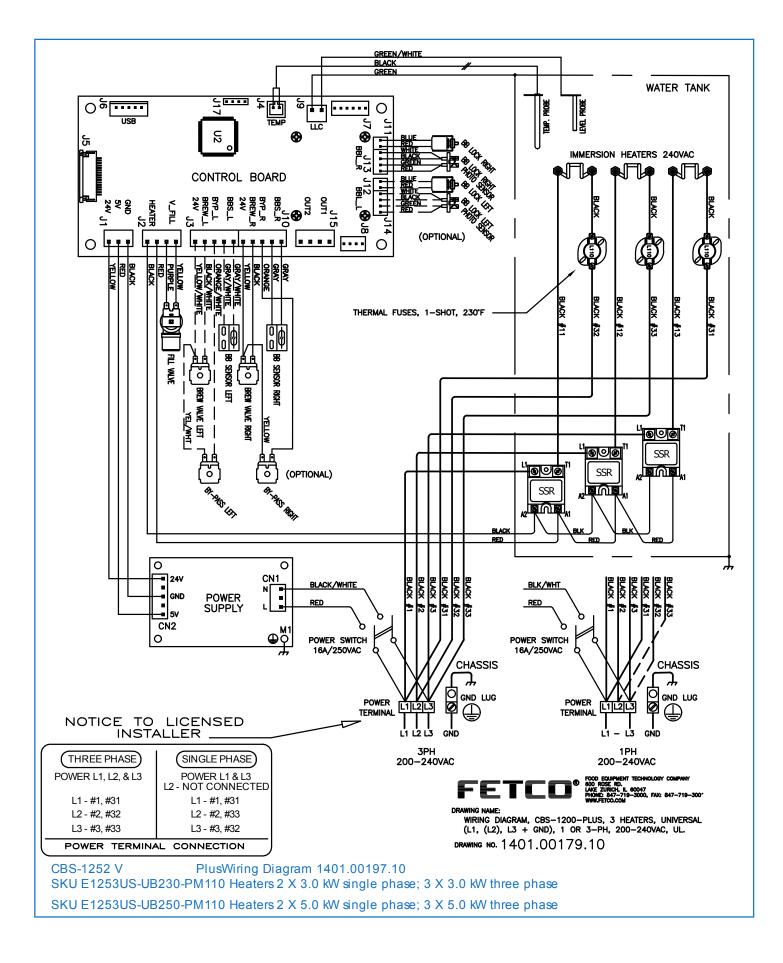
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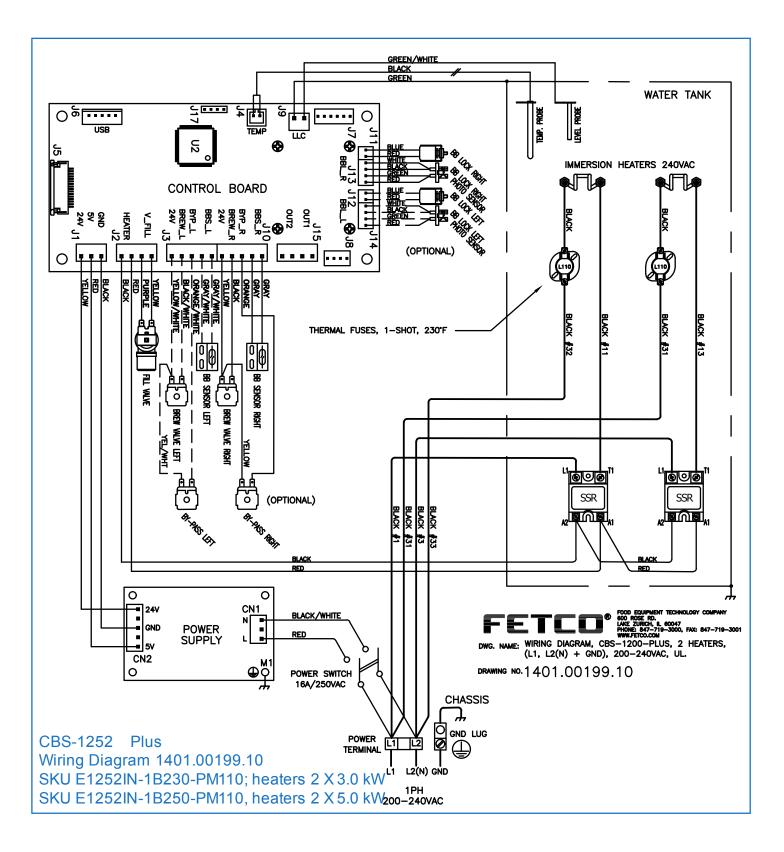
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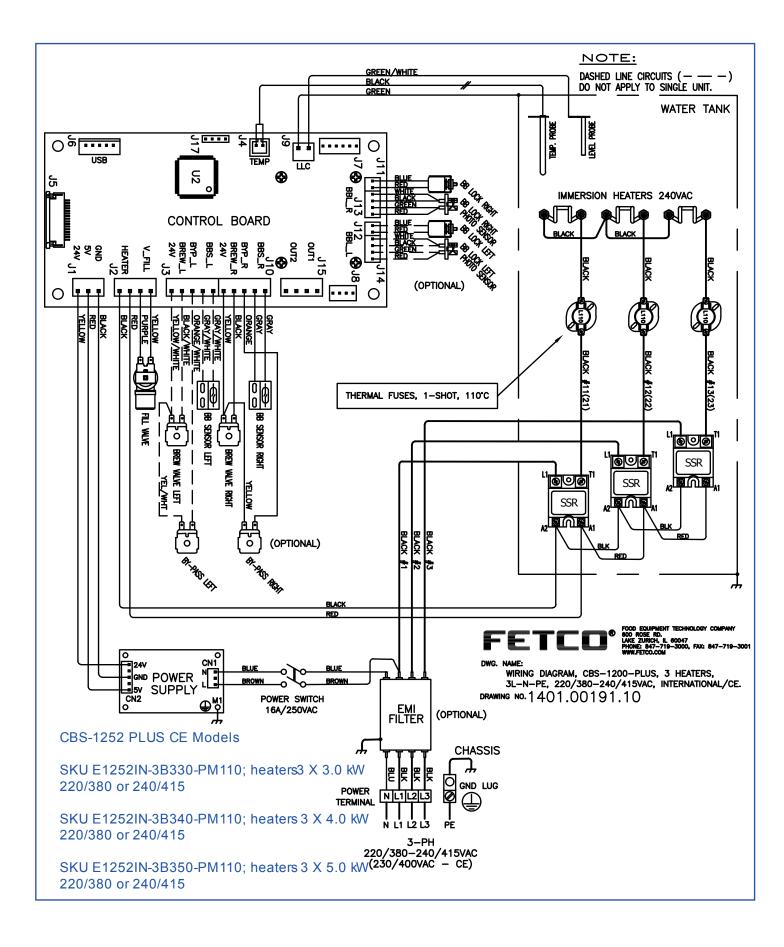
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