INTRODUCTION

The Commercial Barista series by Café 98 incorporates the latest features in brewer control technology along with the proven brewing system you have come to rely on. Although providing for enhanced functionality brewer controls remain intuitive and setup of key operating parameters couldn't be easier. Multiple brew volumes, visa-brew delay, tank temperature set point, brew mode, filter parameters and more are all set from the front control panel using a digital display for precise control. The following pages will explain the control features and then step through the process required to program your unit.

Brew Volume – The Commercial Barista series has two independently programmable brew volumes denoted Brew 1 and Brew 2. The brew time has been converted to display brew volume during setting to allow for easier setting of the desired brew volume. Either of these brew times may be turned off or set for any volume between 30 and 255 ounces for ultimate flexibility. Actual volume delivered may vary slightly from the programmed volume due to actual brewing conditions. However the volume delivered will be consistent from brew to brew. Simply adjust volume up or down to compensate as you would do with a standard time setting.

Double Dump Valve Option – If set to on, this feature will activate a second dump valve to allow for brewing larger volumes without a corresponding increase in brew time. This will help to preserve the beverage quality on larger brew volumes.

Visa-Brew Time – Provides for additional time to flash brew light, after the water delivery portion of brew cycle, to allow for the coffee to finish draining from the brew basket. The flashing indicator light, and the delay in the audible coffee ready signal, aid in preventing premature removal of either the brew basket or the dispenser.

Water Temperature Set Point – Allows for digitally setting the temperature of the water in the brewers tank system to any value between 170 and 205 Deg F. The heating circuit also incorporates a pulse heating circuit, which slows the heater as the set point is approached, to avoid temperature overshoot.

Auto Arm – When enabled this feature ensures that the brewer is up to temperature prior to brewing to ensure proper extraction is obtained. If the water temperature in the tank is below the water temperature set point when the brew cycle is initiated, the water delivery portion of the brew cycle is delayed. The heating light will begin to flash indicating that the unit is in the brew mode but is not up to temperature. At the same time, the tank heater will begin heating. When the tank reaches the preset temperature, the brew cycle will resume. Auto arm may be overridden by depressing the appropriate brew button for several seconds until the brew cycle starts.

Pre-infusion mode – This mode delivers a small amount of hot water over the coffee grounds and then pauses. This allows the gasses in the coffee to escape and allows the grounds to absorb the water before continuing. After this pause the brew cycle resumes normally. Pre-infusion can yield better extraction rates than normal brewing modes. The pause time is added to the brew and visa brew time. The pre-infusion times are preset at the factory. Pre-infusion for Brew 1 and 2 may be turned on and off independently.

Pulse Brew Mode – This mode cycles the valve on and off during the brew cycle. This slows the entry of cold water into the tank and minimizes the mixing action caused by introducing a large volume of cold water into the tank at one time resulting in an increase in brew temperature. The additional turbulence and mixing created along with the increased temperature can result in higher extraction rates for the coffee. The time set for pulse brewing should exceed the time set for brew time. The time difference between the pulse brew time and the brew time is the amount of time available as off time. The difference is divided equally and distributed throughout the brew cycle to provide a pulse after every 20 seconds of brewing. Pulse brew mode for Brew 1 and 2 may be turned on and off independently.

Audible Alert Mode – Provides an audible signal when coffee has finished brewing notifying everybody that fresh coffee is available. May be turned on or off and set for 1-9 beeps.

Coffee Freshness Monitor – Monitors the elapsed time since the brew cycle to assure the coffee is fresh. Freshness time may be set for 10 minutes to 2 hours. The last 10 minutes of the freshness time are counted down on the display and when the preset time is reached a beep is sounded and the coffee monitor light begins to flash.

Filtering Flow Rate – This is the flow rate of incoming water and is used to calculate the volume of water that has been filtered. The flow rates may be turned off or set for .25, .50, .75 or 1.00 gallon per minute flow rates. Note: A filter with a flow rate of 1 GPM minimum is recommended.

Filter Capacity – The filtering capacity in gallons of the filter installed (optional) on the brewer may be selected here. Capacity may be turned off or set for one of the following available values; 0, 500, 1500, 2000 or 2500 gallons.

Number of Brews – The number of brew cycles started may be tracked with this feature. The accumulated number of cycles may be reset. Using the brew buttons, first display "Clr" when in the program mode, then depress cancel.

Power Mode - allows you to automatically save energy when the brewer is not in use for a length of time specified under power shutdown time. Available modes are normal, power save (standby) and power down. The modes are described below.

- Normal - In this mode the tank temperature will be maintained at the preset temperature at all times.

- Power Save (Standby) - In this mode the tank temperature will be maintained at approximately 170 degrees when the set time has been reached. Brew 1 light will flash about once every 10 seconds to indicate unit is in power save mode.
- Power Down - In this mode the tank heater element will be disabled when the set time has been reached. Brew 2 light will flash about once every 10 seconds to indicate unit is in power down mode.

SEQUENCE OF PROGRAMMING STEPS FOR THE BARISTA CONTROLLER

- Depress and hold Cancel button until display lights up (Approx. 10 seconds).
- You are now in the Program Mode. Functions to be programmed appear in the order in which they are shown in the following table.
- Use the Cancel button to cycle through the functions to find the one you wish to change.
- Use the BREW 1 button to lower the displayed value and the BREW 2 button to raise the value. Press Cancel to store the changed value and advance to next function.
- If the Brewer detects no activity for approx. 60 seconds it will exit the Program Mode, except as noted below.

CODE	FUNCTION TO SET	SET VALUES AVAILABLE	LIGHTS ICON ADJACENT TO
1A	Brew 1 time	OFF, 30 ounces – 255 ounces	BREW 1
1b	Brew 2 time	OFF, 30 ounces – 255 ounces	BREW 2
2a	Dual volume- brew1 Double dump feature	ON or OFF	Water filtering Brew 1
2b	Dual volume- brew2 Double dump feature	ON or OFF	Water filtering Brew 2
3	Visa-brew time	OFF, 30 seconds – 2 ½ minutes	BREW 1 and BREW 2 (both flashing)
4	Water Temperature **1**	170 °F – 205 °F	SERVICE
5	Auto Arm	ON or OFF	HEATING, (flashing)
6A	Pre-infusion 1 mode	ON or OFF	BREW 1, (pulsing), COFFEE MONITOR
6b	Pre-infusion 2 mode	ON or OFF	BREW 2, (pulsing), COFFEE MONITOR
7	Pulse brew mode	ON or OFF	BREW 1 and BREW 2 (pulsing)
7A	Pulse brew 1 time **2**	0 seconds – 60 seconds	BREW 1 (pulsing)
7b	Pulse brew 2 time **3**	0 seconds – 60 seconds	BREW 2 (pulsing)
8A	Audible alert mode	ON or OFF	None
8b	Audible alert no. of beeps	OFF, 1 – 9	None
9	Coffee freshness monitor	10 minutes – 2 hours	COFFEE MONITOR
10A	Filtering flow rate	OFF, 0.25 – 1.00 gal. / min	WATER FILTERING
10b	Filter capacity **4**	OFF, 0.50 – 2.50 gal. X 100	WATER FILTERING, (flashing)
11	Number of Brews	Quantity, Clr	BREW 1 and BREW 2
13A	Power mode	**N**ormal, Power **S**ave, Power **D**own	None (Displayed P: n, P: s and P: d respectively)
13b	Power shutdown time **5**	30 minutes – 4 hours	None
End	None **6**	N/A	None

1   Brewer will remain in this sequence indefinitely until CANCEL button is pressed. Heating icon will track heater operation.
2   Hidden if pulse brew mode is OFF or brew 1 time is OFF.
3   Hidden if pulse brew mode is OFF or brew 2 time is OFF.
4   Hidden if filter flow rate is OFF.
5   Hidden when power save mode is normal.
6   Program mode will time out in 15 seconds at end of programming sequence.

ERROR MESSAGES

The following table explains the error messages which may be encountered on the brewer. The error messages may be cleared by going into the program mode, using the brew buttons to display "Clr" and then pressing the cancel button.

ERROR MESSAGE	DESCRIPTION	CAUSE
Er1	Fill run error	The fill solenoid has either run for more than six minutes on the initial tank fill or 3 minutes in normal operation.
Er2	Heater run error	The tank heater has run for more than 30 consecutive minutes.
Er3	Shorted probe	Short in the thermistor circuit.
Er4	Open probe	Break in the thermistor circuit.
Ful	Filter limit reached	The selected filtering capacity of the filter has been reached