S1 Vivaldi II Temperature Offset Change

Background:

The boiler temperature set on the front panel is supposed to be the actual temperature of the water in the VII's group boiler. The intention of the offset is to be able to program a temperature offset so that the water at the group head matches the temperature set for the group boiler.

Normally one would expect a temperature drop from the boiler to the group head. However, the Vivaldi II's software already has a hard coded value that over compensates for this temperature drop. Therefore, the programmable temperature offset, whose control is detailed in the following section, results in a negative offset allowing the user to reduce the amount of built-in positive offset. The net result of this offset adjustment is that the group temperature will match the group boiler setting.

Instructions:

With the machine in Standby (only **ON/STBY** green LED blinking), press the BOILER button until the green **ON/STBY** LED and the red **BOILER** LED are blinking (about 10 seconds).

If the Offset = 0° C, then no other LEDs are lit. Assuming a start with Offset = 0° C, each press of the BOILER button, changes the offset by -1°C and lights an additional LED starting with the **91°C** LED and going up through the **ECON** LED. Once all eight offset LEDs are lit, an additional press of the BOILER button cycles back to 0°C offset.

To exit the Offset mode, press ON/OFF (machine in Standby). When entering the Offset mode the next time, the last stored value is displayed.

Offset	91ºC	92ºC	93ºC	94ºC	95⁰C	96ºC	97°C	ECON
	Lit							
0°C	Off							
-1ºC	On	Off						
-2ºC	On	On	Off	Off	Off	Off	Off	Off
-3ºC	On	On	On	Off	Off	Off	Off	Off
-4ºC	On	On	On	On	Off	Off	Off	Off
-5°C	On	On	On	On	On	Off	Off	Off
-6ºC	On	On	On	On	On	On	Off	Off
-7ºC	On	Off						
-8ºC	On							

See table below:

Factory Preset:

If your S1Vivaldi II was purchased from Chris Coffee Service, your offset was professionally calibrated before shipment as outlined below. Unless you have the same equipment they used and the knowledge required to use them accurately, you should leave this adjustment as is.

We test each machine and set the offset accordingly. Some machines 0°C offset, some -2°C, some -1°C. We use the Scace device and a digital Fluke.

Here is how we perform the test to calibrate.

- First let the machine completely heat up.
- Leave the Scace device in the group.
- We program one of the buttons to dispense 2 ounces of water.
- We press that button and pull two ounces through the Scace.
- We then take the Scace out of the group.
- Watch the blinking lights till the set temp is reached, which takes approximately 30 seconds, and then put the Scace back into the group and take our reading.

The 30 seconds represents the time it take someone to grind and tamp coffee before putting the portafilter back into the group. We repeat it three or four times before making any adjustments.

