

## Changing the Boiler Temperature Offset on The Brewtus

### **Understanding the Offset Value:**

The boiler temperature on all E61 espresso machines is always higher than the Grouphead Temperature. Why is that? The Thermosiphon system on the E61 group is not efficient enough to bring the grouphead to boiler temperature. So, if I want brew temperature to be 94c, and I set boiler temperature to 94c, some of the water heat will be lost on the way to the portafilter. Lost because the water travels through pipes and through channels in the Group, which will reduce its temperature.

The solution: Get the boiler temperature higher than the requested brew temperature, and when it goes through the Grouphead, the temperature will cool down to meet the requested brew temperature. The mass of the E61 Grouphead has a cooling affect on brew water on its way to the portafilter. The question is: What should be the offset value between the boiler temperature and set brew temperature. In other words, how much hotter does the boiler need to be? That value is the offset value. Example: Boiler temperature needs to be 7 degrees higher than the requested brew temperature. The offset value in the above example is 7 degrees.

All Brewtus espresso machines shipped after March 2005, have an offset value of 6 degrees Celsius. I have found that that set value is not efficient for casual home use. I recommend for most uses to have a 7 degrees offset value. Following are simple instructions on how to change that value:

### **Changing the offset value**

1. Push and hold the Up and Down arrows until you the display say "CO"
2. Push "Set"
3. Push the Up and Down arrows until you get to the degrees offset you want.
4. Push the set button.
5. Push the Up and Down arrows until the display says EP (exit program)
6. Push the set button and you will be all set.

### **A Note about Flushing**

The Brewtus still needs some flushing to reach brew temperature. Refer to my flushing chart on our website for instructions.

Abe Carmeli