**Water bar system requirements:**

1. Hot water temperature control: The water bar must maintain a hot water temperature range of 50℃<temp<90℃.
2. Cold water temperature control: The water bar must maintain a cold water temperature range of 5℃<temp<10℃.
3. Boil water button: immediately after pressing, the process of heating water to 90℃ is carried out. While the water is heating, LED1 indicator light flashes.
4. Button for pouring hot water: if the water temperature is >90℃, the cup starts filling. When filling the cup, an indicator light (LED1) lights up continuously.
5. Button for pouring cold water: turning on a cold water pump. When filling the cup, there is an indicator light on (LED2).
6. Pressing any button on the system while filling the cup (while the pump is working) will stop filling the cup immediately.
7. Cup size selection: the user has three options to choose the amount of water defined to fill the glass - 15 Sec, 8 Sec, 4 Sec.
8. Lukewarm water filling button: allows pouring a glass of lukewarm water in the temperature range 25℃<temp<35℃. When filling the cup, there is an indicator light on (LED3). Pouring is enabled at full boil and for 8 seconds only.
9. Warning light against water overflow: a light showing that the excess water storage compartment is full (water that has spilled out of the cup).