

SANSAIRE



ENGLISH

# IMPORTANT SAFEGUARDS

When using electrical appliances, always follow basic safety precautions, including the following:

- Read all instructions before operating the device.
- To protect against risk of electrical shock, do not fill the water level past the Maximum Fill line, or otherwise immerse the upper section of the machine in water or other liquid.
- Never operate the machine without the back cover securely attached and the machine clamped to a sturdy surface, like a stock pot.
- Do not touch hot surfaces.
- Always supervise children when they use any electrical appliance.
- Avoid contacting moving parts.
- Unplug the unit from outlet when not in use. Ensure the unit is unplugged and 'off' before cleaning or performing maintenance.
- Clean hot surfaces with caution. If a wet sponge or cloth is used on hot surfaces be careful to avoid steam burn. Some cleaners can produce noxious fumes if applied to hot surfaces.
- Do not operate any appliance with a damaged cord or plug, or after the appliance malfunctions, or is dropped or damaged in any manner.
- Return appliance to the nearest authorized service facility for examination, repair or electrical or mechanical adjustment.
- The use of attachments not recommended or sold by the manufacturer may cause fire, electric shock or injury.
- Do not use outdoors
- Do not permanently mount to any surface.
- Do not let cord hang over edge of table or counter.

**Please save these instructions.**

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# COOKING SOUS VIDE

The Sansaire™ Immersion Circulator is designed for sous vide cooking. High end restaurants have been cooking with the sous vide method for years and trying to keep it secret. You are about to see how easy it is to achieve perfectly cooked proteins and vegetables every time. It works like this: Preheat your water bath to the desired cooking temperature by adjusting the temperature ring on your Sansaire™ Immersion Circulator.

1. Seal the ingredients you wish to cook in a plastic bag. You can also use a canning jar filled with your favorite cooking oil.
2. Place the bagged food in the water bath and let it cook until it has reached its target temperature.
3. Give your food a quick sear, and it's ready to serve!

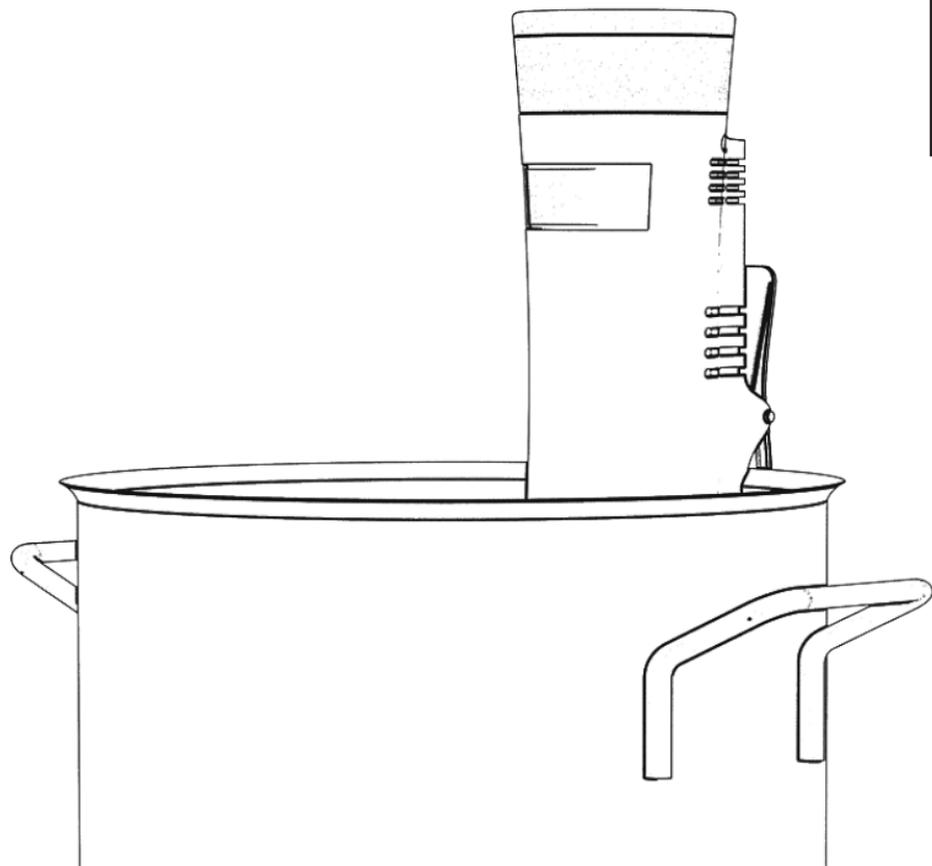
Unlike cooking on a stove or in the oven, the temperatures are low (well below boiling temperatures). By setting the right temperature for your ingredients, your food won't overcook if you leave it in the water bath – it can't get hotter than the temperature you set!

To learn more about sous vide, and for recipes and techniques, visit:

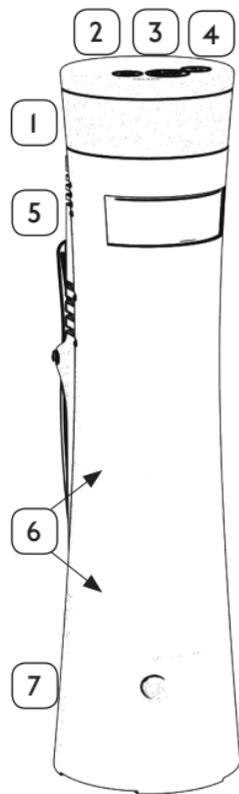
**SANSAIRE.COM**

# SETUP

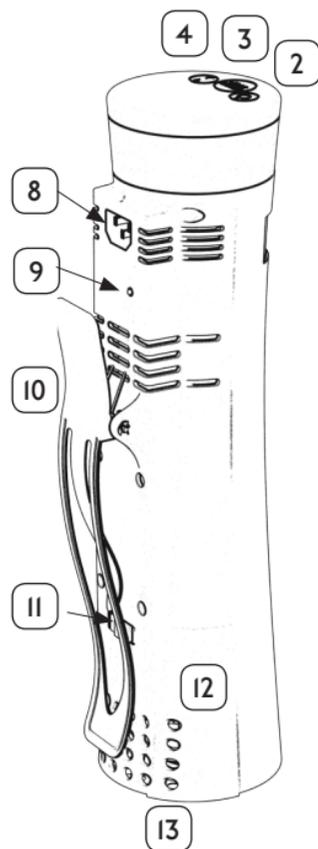
- 1. Pick a container** large enough to hold your food, and with plenty of room for water to circulate.
- 2. Attach** the Sansaire™ Immersion Circulator to the side of the container. Add water until the level is above the Minimum Fill line, but below the Maximum Fill line. Remember that the water level will rise when you add your food. (Never turn on the Sansaire™ Immersion Circulator in an empty or under-filled water bath.)
- 3. Plug in** the Sansaire™ Immersion Circulator.
- 4. Press** the Power button on the top of the unit. This turns on the display and makes the circulator heat the water to the set target temperature. Set the target temperature of the water bath by turning the silver Temperature Ring above the display. The Sansaire™ Immersion Circulator automatically keeps the water at the target temperature until you turn it off. Your water bath is now ready for cooking!



# FEATURES



1. **TEMPERATURE RING**– Turning the ring sets the target temperature of your water bath.
2. **TARGET BUTTON**– Used to show the target temperature on the display temporarily.
3. **POWER BUTTON** – Used to turn the circulator on and off. When on, heating and circulating begins immediately.
4. **C/F** – This button switches between Celsius and Fahrenheit units on the display.
5. **DISPLAY** – During normal operation, the display shows the current temperature of the water bath. When you turn the temperature ring, the display temporarily shows target temperature.
6. **MINIMUM FILL/MAXIMUM FILL** – These lines indicate the minimum and maximum fill levels for the water bath. Never operate your immersion circulator if the water level is outside of these boundaries, as it may cause damage to the unit.



7. **PUMP OUTLET** – The circulator moves water through the pump outlet to keep the water bath at an even temperature.
8. **POWER CORD PLUG**
9. **RESET** – For safety, the machine enters reset mode if water level is too low.
10. **CLAMP**– The clamp attaches the machine to the wall of a water container.
11. **LATCH** – The latch locks and unlocks the back cover to the base of the immersion circulator.
12. **BACK COVER** – Slides off for easy access to heating element and pump impeller for cleaning. Always operate with the cover attached.
13. **GRATE** – Removable metal base at the bottom on the circulator to keep heating elements free from contact with other objects.

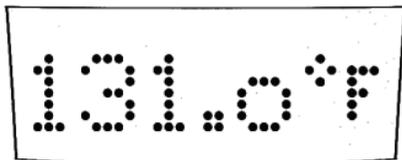
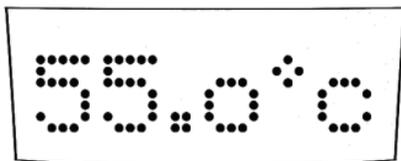
# OPERATION

## USER INTERFACE

During regular operation, the primary user interface is the **power button** to turn the machine on and off and the **temperature ring** to change the target temperature.

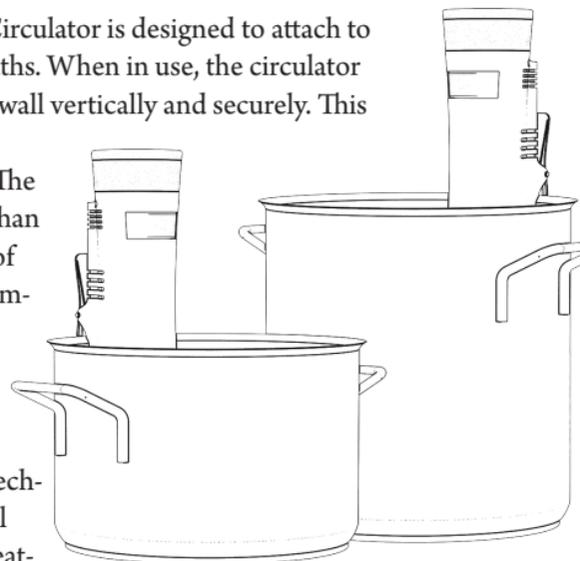
The display, by default, shows the current temperature of the water. However, when the temperature ring is turned or the power is turned on, the display turns to showing the target temperature. Regular temperatures range from 40C (~105F) to 85C (185F). To view the target temperature at any point, press the **target temperature button**.

The display can be chosen to show temperature in Celsius or Fahrenheit by pressing the **C/F button**.



## WATER BATHS

The Sansaire™ Immersion Circulator is designed to attach to many shapes and sizes of baths. When in use, the circulator needs to be clamped to the wall vertically and securely. This prevents the machine from accidental water exposure. The bath should hold no more than 20 liters (about 21 quarts) of water to ensure the water temperature is kept uniform.



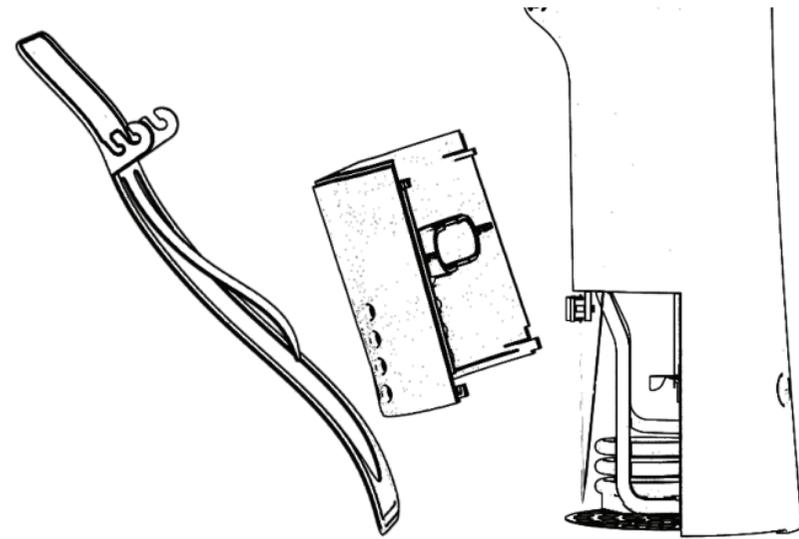
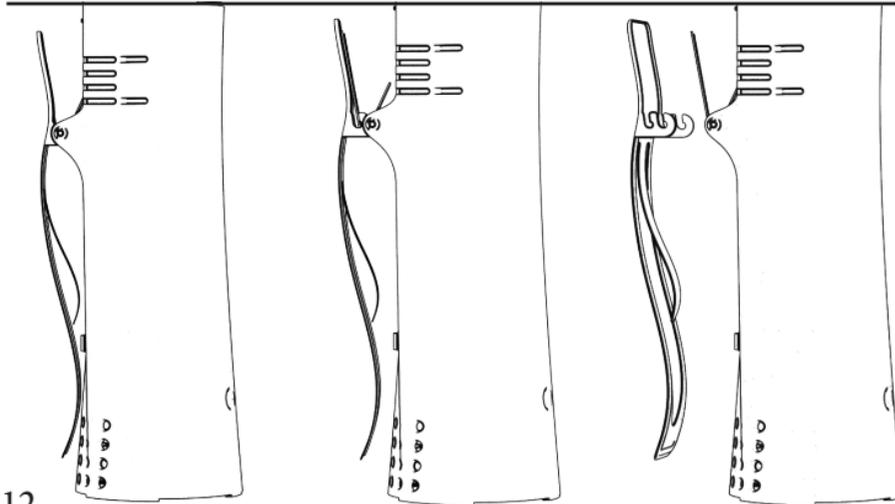
## RESETTING

The Sansaire has a safety mechanism in case the water level becomes too low and the heating elements begin to overheat. This usually happens if the machine is turned on for an extended period outside a water bath or the water level becomes too low. If this happens, the display reads 'RESET'. Let the heating element cool and press the reset button on the back of the circulator to return normal functionality.

## CLAMP POSITION

The clamp on the back of the Sansaire™ Immersion Circulator has two different configurations. In most cases the clamp should attach to the machine on the inner peg but if the container wall is thicker, the second peg can also be used.

To move the clamp between pegs, press the clamp towards the center of the circulator and pull down gently. Once the clamp is off the axel, align the axel with the desired peg and pull up gently. The clamp can be completely detached for cleaning. However, the circulator should never operate without the clamp attached and secured to a bath.



## REMOVING BACK COVER AND GRATE

The circulator has a back cover that is detachable. It should only be detached when the circulator is off and unplugged for cleaning and never during use.

**To open:** Detach the clamp, slide the latch left, and pull the back cover down and away. With the cover off, the grate can be detached as well.

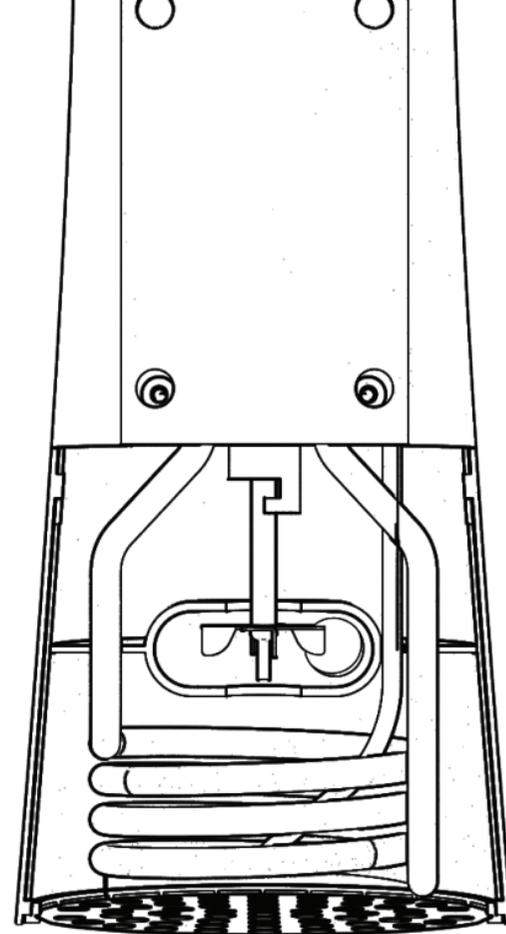
**To close:** Place the grate in the slot running along the bottom of the circulator's front, inner surface. The two grooves on the grate should be aligned towards the left and right side of the casing. The back cover can now be slid back on and latched, followed by the attachment of the clamp.

# MAINTENANCE

## CLEANING

In the course of normal use, food particles and minerals from the water bath may collect on the Sansaire™ Immersion Circulator. We recommend regular cleaning of the housing, impeller and heating coils.

1. Power off, unplug and remove the Sansaire™ Immersion Circulator from the water bath. If the unit is hot wait for the unit to cool down.
2. Remove the power cord from the back of the unit.
3. Remove the clamp from the back of the unit.
4. Slide the back cover tab to release the back cover, exposing the impeller and heating coils. NOTE: The upper section of the Sansaire™ Immersion Circulator contains sensitive electronics and should never come in contact with water.
5. While holding the unit upright, rinse under running water to remove food particles and cool the coils if still warm.
6. If necessary, scrub the unit gently with a sponge or brush and a drop of dishwashing liquid. Rinse the unit thoroughly, ensuring that water does not enter the upper section.
7. Reinstall the back cover and clamp.



## DECALCIFYING

After some time, the coils accumulate calcium deposits due to the water bath. Add a decalcifying agent, such as CLR, to your water bath, following the dilution instructions provided by the manufacturer. Set the temperature of your water bath to 25°C / 77 °F and allow the unit to run for 10 minutes. Power off, unplug and remove the Sansaire™ Immersion circulator from the water bath and continue cleaning per the instructions above. Discard the water in the bath and thoroughly clean the container and any other materials in contact with the bath.

**WARNING:** Do not add food (bagged or otherwise) to the water bath while cleaning, and ensure that the bath water has been replaced with fresh water before cooking.

## STORAGE

You may choose to leave the Sansaire™ Immersion Circulator clamped to the water bath when not in use but it should be unplugged from the power source. However, should you need to store your circulator, wipe the unit dry using a cloth or paper towel prior to putting it away.

## TEMPERATURE CALIBRATION

Your Sansaire™ Immersion Circulator is factory-calibrated, but also allows for a manual temperature offset. You may adjust the temperature reading by performing the following steps:

1. Prepare a water bath at or around a normal cooking temperature (ex. 50.0 °C).
2. Measure the temperature of the water bath with an accurate digital thermometer. Note the difference between the Sansaire™ Immersion Circulator's temperature reading and the reading from your thermometer.
3. With the unit running, hold down the C/F button for a few seconds. The display will show the current offset temperature.
4. Turn the temperature ring to adjust the offset value. For example, setting the offset value to 1.5 °C increases the temperature reading by 1.5 degrees.

**NOTE:** Most inexpensive kitchen thermometers are less accurate than the Sansaire. For recalibrating, we recommend using a professional reference thermometer, such as those sold by ThermoWorks (ThermoWorks.com).

# TROUBLESHOOTING

If you have any issues with your machine, check to see if these troubleshooting instructions solve the issue. If the problem persists, contact customer service for options on servicing the unit.

**Symptom: The water bath does not get hot, or does not circulate.**

Press the Start/Stop button to activate the heating coils and circulating motor. You should be able to see water moving through the pump outlet opening. If water is flowing but does not heat, ensure that the target temperature that is above the current temperature of the water.

**Symptom: The Sansaire™ Immersion Circulator does not turn on.**

Ensure that the power cord is firmly attached in the rear of the unit. In some cases, a household circuit may become overloaded from the use of electrical appliances causing the outlet to stop supplying power. Check any circuit breaker the outlet is connected to in the house.

**Symptom: The display reads RESET.**

The Sansaire™ Immersion Circulator includes a safety mechanism to protect components from overheating. This normally occurs when the water level is too low or the machine is operated outside a water bath.

If this happens, wait for the machine components to cool down and press the Reset button on the back of the unit to restore the Sansaire™ Immersion Circulator to normal operation.

**Symptom: Power cord becomes hot to the touch.**

Check that the power cord is the original included in the packaging. If it is not, the cord may be rated too low. It needs to be rated at 16AWG (or less) to handle the current draw without heating. If, after replacing the cord, the circulator continues to heat the cord, contact our customer service department.



## HELLO FROM SEATTLE

ModernChef, Inc.

Product: Immersion Circulator  
Model No: SA3.07us  
Power: 100/130VAC~50/60Hz  
Max Current: 10 Amps  
Coil Wattage: 1100 Watts  
Temp Range: 0-100°C (32-212°F)  
Min-Max Water: 3 - 6.5 in  
Dimensions: 4 x 5 x 14.5 in<sup>3</sup>  
Household Use Only  
Made in China

ModernChef, Inc.

Product: Immersion Circulator  
Model No: SA3.07eu  
Power: 220/240VAC~50/60Hz  
Max Current: 5 Amps  
Coil Wattage: 1100 Watts  
Temp Range: 0-100°C (32-212°F)  
Min-Max Water: 7.5 - 16.5 cm  
Dimensions: 10 x 12.5 x 36.5 cm<sup>3</sup>  
Household Use Only  
Made in China