



PREPARING FOR USE

1. Our TCS 1000ml mixing jug should be used for MIXING AND HEATING CHEMISTRY, or a heat-proof 3L-20L storage tub as a temperature control water bath for PROCESSING WITH THE TCS-1000.

2. Fill the container with liquid to the desired level.

3. Place the TCS-1000 inside of the container, clipped securely to the wall of the container without resting on the very bottom. As the water level will rise when you add the TCS-1000 and solutions to the container, check the water level markings on the TCS-1000, the water level should be between the “min” and “max” **(the suitable water level to work)** indicator on the front of the circulator.

NOTE: The TCS-1000 circulator is equipped with an alarm, which indicates a low or high liquid level, if the liquid level goes past the min and max marks, the circulator will shut off until the liquid level is adjusted.

Liquid level between “max and min” in the TCS 1000ml mixing jug.



IMPORTANT SAFEGUARDS

When using electrical appliances, basic safety precautions should always be followed including the following:

1. Read all instructions.
2. Do not touch hot surfaces. Use handles or knobs.
3. To protect against electrical shock do not immerse head, cord, plugs, in water or other liquid.
4. Close supervision is necessary when any appliance is used by or near children.
5. Unplug from outlet when not in use and before cleaning. Allow to cool before taking off or putting on parts.
6. Do not operate any appliance with a damaged cord or plug or after the appliance malfunctions or has been damaged in any manner. Return appliance to the nearest authorized service facility for examination, repair, or adjustment.
7. The use of accessory attachments not recommended by the appliance manufacturer may cause injuries.
8. Do not use outdoors.
9. Do not let cord hang over edge of table or counter, or touch hot surfaces.
10. Do not place on or near other heating devices.
11. Extreme caution must be used when moving an appliance containing chemicals or other hot liquids.
12. To disconnect, press and hold the “Power” button, then remove plug from wall outlet.
13. Do not use this appliance for other than intended use.
14. For household use only.
15. This appliance is not intended for use by persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge (including children), unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

STARTING UP THE TCS-1000

1. Plug the power cord into a dedicated outlet. When you hear the beep the TCS-1000 is in standby.
2. Press the power button on the screen, and hold it for 2 seconds. The screen will turn on. The TCS-1000 will enter the “setting” mode. The current temperature starts blinking.

MIXING AND HEATING CHEMISTRY

- “SET TEMP” shows the target temperature.

NOTE: Without a temperature control bath, you will need to: increase the target temperature +1°F/ .5°C for every 3min. of development, and presoak film in the tank with heated rinse water while the developer is being heated in the TCS 1000ml mixing jug.

- Tap the power button. You will hear a beep sound and the current temperature will stop blinking. The TCS-1000 is now mixing and heating. The alarm will beep when the liquid temperature reaches the same as target temperature..
- Tap the power button when finished, the current temperature will flash and the TCS-1000 will stop circulating.

PROCESSING WITH THE TCS-1000

- Once chemistry reaches the target temperature, press and hold the “Cs” set button for 2 seconds to start process timers. Add developer as you hear four beeps, and begin agitation. The Left timer will start to countdown.

NOTE: Tap the “Cs” button to pause and adjust the timers. To resume countdown, press and hold the “Cs” button for 2 sec. During the process, you can adjust the temperature anytime.

- When the Left timer reaches “00:00” you will hear a long beep signaling to drain the developer.
- Rinse out the tank with water or a stop bath. 30 seconds later the TCS-1000 will beep four times to indicate that the next timer will begin to count down. You can now pour in the next chemical or tap the “Cs” button to pause.
- When the right timer reaches 00:00, it will again beep four times, signaling completion.

ADJUSTING THE TEMPERATURE

- Scroll the wheel up and down to increase or decrease the target temperature.

NOTE: Default temperature setting is 39°C / 102°F. Press the power button and set button at the same time to toggle the temperatures between Celsius or Fahrenheit, as you prefer.

ADJUSTING THE TIMERS

- Press the “Cs” set button to select the timers, the Left timer (minutes) will start blinking. Scroll the wheel up and down to increase or decrease the minutes (00-99 min).
- Press the “Cs” set button again, and the seconds will start blinking. Scroll the wheel up and down to increase or decrease the seconds (00-59 seconds).

NOTE: The countdown timers are default set at 03:30 and 08:00 for recommended C-41 processing.

- Press the “Cs” set button a third time and the Right timer (minutes) will start blinking. Scroll the wheel up and down to increase or decrease the minutes (00-99 min).
- Then press the “Cs” set button again to set the seconds to start blinking. Scroll the wheel up and down to increase or decrease the seconds (00-59 seconds).

- Press the “Cs” set button once more to confirm all the settings and the timers will no longer flash.

NOTE: After ten seconds of inactivity the timer setting will confirm and exit.

SHUTTING DOWN THE TCS-1000

- Appliance should be turned off when mixing or processing is complete and when it is not in use.
- Press power button, the current temperature will flash, and the appliance will stop circulating.
- Then press the power button again, hold for 3 seconds, and the TCS-1000 will switch OFF.

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TROUBLESHOOTING

The TCS-1000 does not turn on:

- Make sure that the appliance is properly plugged into a grounded outlet
- Check the power cord for tears and frays. Do not use the appliance if the power cord is damaged.
- Hold power button for 2 sec.

The timers do not count down:

Press and hold “°Cs” button for 2 sec.

The LCD display screen reads an error code:

E01: NTC Open Circuit. Temperature below 0°C.

Remedy: Turn off the appliance and restart.

E02: NTC Short Circuit. Temperature over 99°C.

Remedy: Turn off the appliance and restart.

E03: The appliance will alarm when the water level drops below the MIN water level, or sensors can't detect your distilled water. *Deionized “pure” H₂O molecules need atmospheric CO₂ to be conductive to the sensors.*

Remedy: Adjust the appliance to the correct water level. Sensors will work normally if the water is equilibrated by aerating or adding some tap water.

E04: The appliance will alarm when the water level is over the MAX water level.

Remedy: Adjust the appliance to the correct water level and appliance will work again normally.

E05: Motor failure/impeller jammed.

Remedy: Tap power button. Unplug the appliance and “Wash” (See CLEANING). Check that the impeller spins freely.

CLEANING

Rinse by circulating two full jugs of water after each use.

Wash the appliance while unplugged. Remove the black cap at the base by twisting 1/8 turn clockwise, and slide off the black silicone sleeve. Wash in a jug with running water. Do not wet the head of the unit.

Descaling should be done every month or more often with frequent use in regions with hard water.

1. Place the appliance into the TCS-1000ml mixing jug with water to the "Max" level indicated on appliance.

2. Set the appliance temperature to 70°C/158°F.

3. Add 5g of citric acid powder (when descaling) per liter of water used.

4. Allow the water to circulate for 20 minutes after 70°C/158°F is reached.

5. Turn off and unplug the appliance.

6. When appliance is cool, rinse the bottom in cold water. Dry before storage.

LIMIT OF LIABILITY

Should this product be found to not operate as intended or to be defective in manufacture, please contact us at “Support@CineStillFilm.com”. If it cannot be troubleshot or refurbished it may be replaced with an identical product.

This product is provided “as is” with no liability for damage, defect or loss caused by negligence or other fault, to the extent as permitted by law; e.g. under no circumstances will CineStill, inc. or its creators be liable for consequential loss and damages, or business interruption, neither direct nor indirect. Without limiting the foregoing, the creators of CineStill's liability arising with respect to a product will not exceed the total fees paid or payable related to the equivalent product.

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