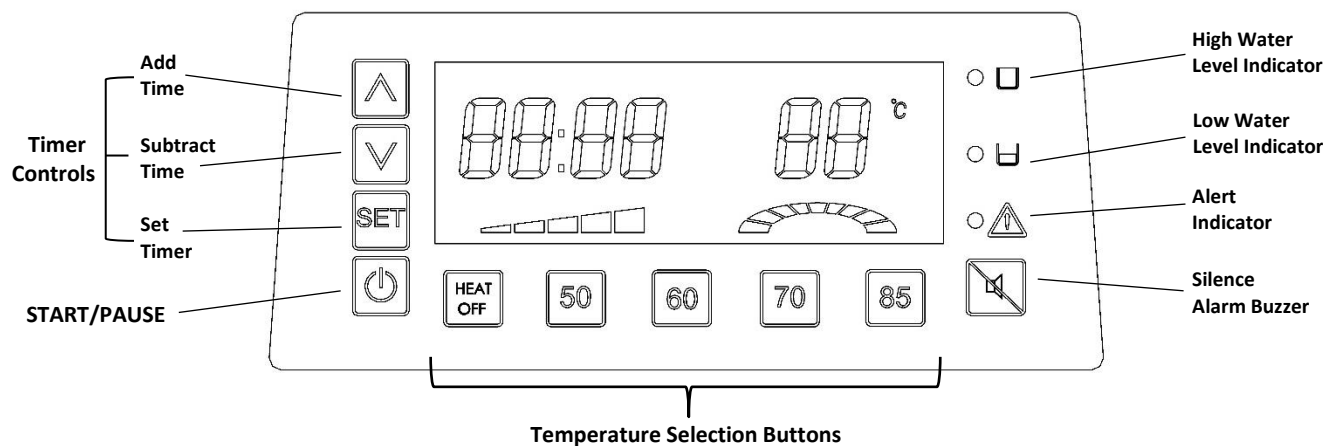


Before you begin, check that the:

SCA Is filled with Water & Cleaning Solution*

Power Cord is plugged in

Power Switch is ON



1

Select Temperature

Press one of the temperature presets to select the cleaning temperature or select 'Heat Off'.

See opposite page for table of recommended support dissolve temperatures. The SCA heating rate is about 3 minutes/degree.

The temperature can be changed at any time during the cleaning cycle by selecting a different preset button.

2

Set Timer & Preheat

Set the timer by first pressing the SET button and then pressing the up and down arrows to increase and decrease the number of minutes. Press the SET button again and set the number of hours using the same up and down arrows. Press the SET button again to accept the time. Press the button to activate the heater and pump.

Allow the SCA to reach selected temperature before placing parts into the tank for cleaning.

3

Load Parts

Place your parts into the large basket and close the basket lids.

If your parts are small use the small parts basket and put this into the large basket. This prevents parts from escaping the large basket during cleaning.

IMPORTANT: wear proper gloves and eye protection when working with cleaning solution. The addition of WaterWorks to water is a heat-releasing reaction.

4

Adjust Liquid Level

After the SCA reaches the selected temperature, press the button to pause the heater and pump. Set the timer if needed. Slowly lower the basket into the liquid to avoid activating the high level alarm. If the alarm sounds and either of the liquid level lights is illuminated, press the Silence Alarm button. Adjust solution (adding to or subtracting water from tank) until both level indicators are off.

5

Begin Cleaning Cycle

Press the button to activate the cleaning cycle. Illuminated bars will sweep from left to right under the temperature display while the pump is running. The timer countdown is indicated by illuminated bars just below the time display. The number of lit bars decreases as time elapses.

*see Opposite page for cleaning solution amounts to use

ATTENTION! Before operating your SCA, read your User Manual. It contains important safety, operation, and maintenance information.

Recommended Temperature Settings			
Build Material	Temperature Setting	WaterWorks	EcoWorks
ABS	70°C	Yes	Yes
PC	85°C	Yes	No
Nylon	50, 60 or 70°C**	Yes	Yes
**depending on part wall thickness and desired dimensional accuracy.			
For MJ and PLA parts select the 'HEAT OFF' option.			

What cleaning solutions are used in the SCA?

The SCA tank is compatible with approved water based caustic solutions for the removal of 3D printed soluble support material. The above table references two commonly used cleaning solutions and a complete list of approved cleaning solution products and proper use instructions are available on the Oryx Additive website: www.oryxadditive.com/support.

How much of the cleaning solution do I need to use?

The SCA 1200ht has a 12 gallon (46 liter) maximum tank capacity, but typical operational tank capacity is 11 gallons (42 liters) of solution. Most cleaning solutions when

properly mixed will result in a starting solution pH > 12, Ecoworks the pH is around 10.

For example:

WaterWorks - One bottle (2.1 lbs/ 950g) treats 11 gallons (42 liters) of water, which is sufficient for the SCA 1200ht.

EcoWorks - One packet consisting of an A and B pouch treats two gallons (7.5 liters) of water, requiring 6 packets for the SCA 1200ht.

Can I fill the SCA tank with hot water to speed the heating time?

Cool (not hot) water should be used to fill the tank. The addition of cleaning solutions to water is a heat-releasing reaction and if added to HOT water will result in dangerous spattering.

How long will it take to remove the support material from my 3D printed parts?

Removal time is highly variable and depends on part geometry, part size, cleaning solution used, pH of cleaning solution, and material type. Until some experience is gained, estimate four to five hours. Parts can be checked during the cleaning cycle and removed from the SCA if support is dissolved before the end of the set time.

How do I know when it is time to change the cleaning solution in my SCA?


Any of the following may indicate it is time to change the cleaning solution in the SCA:

- It seems to take longer to clean parts indicating the cleaning solution is saturated with dissolved support material and is losing effectiveness.
- The pH of the solution drops below cleaning solution manufacturer's lower pH limit. Lower limit examples:

WaterWorks solution is < 11.5 and EcoWorks solution is < 8.5.

- The solution has a strong odor.

When can I open the lid if the SCA is in a cleaning cycle?

The lid can be opened at any time during a cleaning cycle. Use the same precautions whenever you may come in contact with the cleaning solution, i.e. wear rubber heat-resistant gloves and eye protection. The SCA will continue operating with the lid open until the cycle is complete or you press the  button.

What size hose do I need to drain the SCA?

A 1 in/25.4 mm ID hose will fit over the drain tube at the rear of the SCA. Make sure to use a hose that can withstand the warm, caustic liquid being drained from the SCA tank. Always let the cleaning solution cool to 30°C or below before draining.

