



SOLVENT RECYCLER

INSTALLATION AND OPERATING INSTRUCTIONS S600 Rev.3 WITH PLC CONTROL 7-GALLON SOLVENT RECYCLER USCAN

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RECYCLER SPECIFICATIONS FOR 7-GALLON S600 RECYCLER

Dimensions: 22.25" wide, 44" high, 39" deep

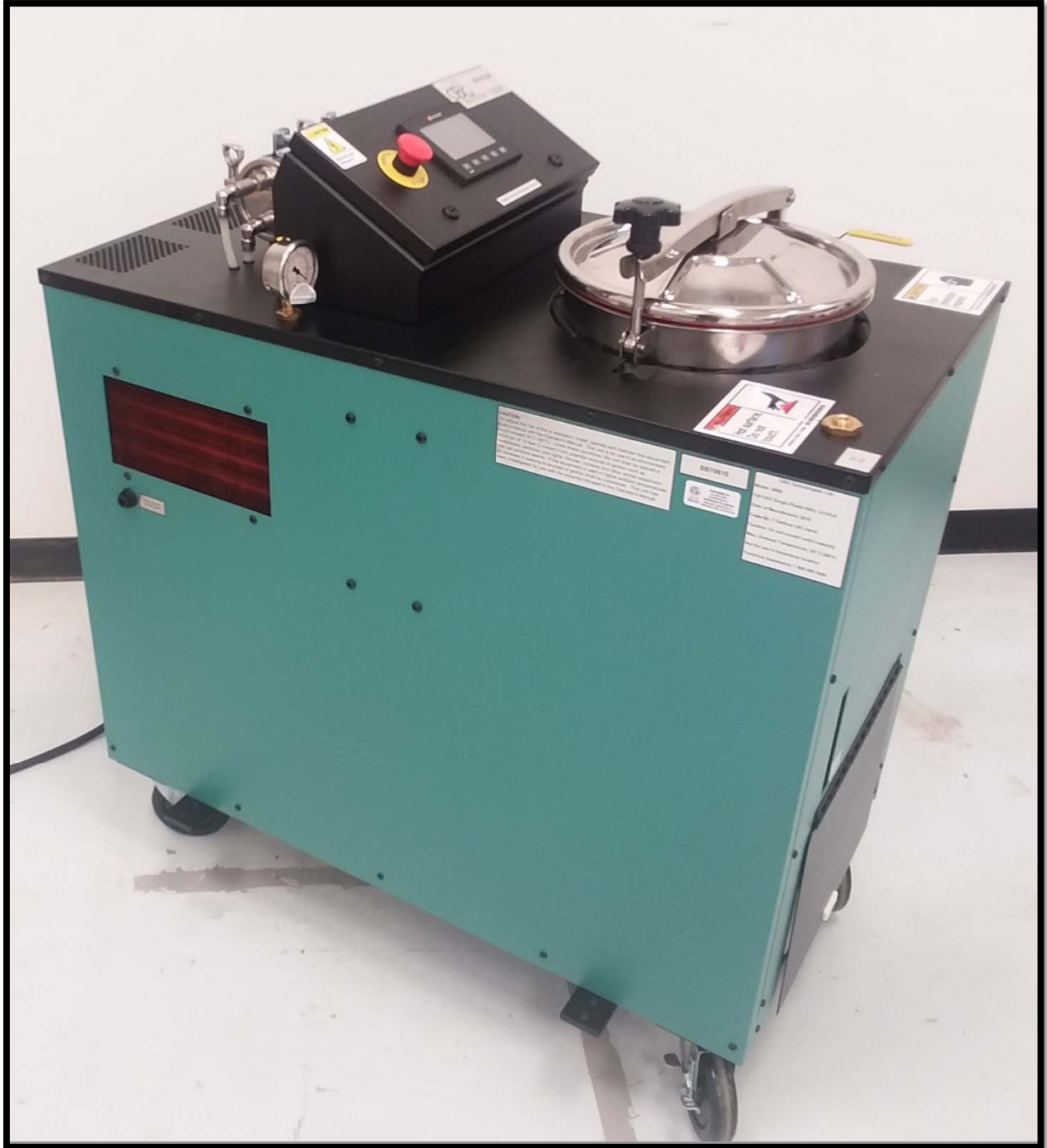
Necessary Hook-ups: 20Amp 120VAC 60hz grounded outlet

Amps @ Full Heat Wattage: 17.4 FLA

Amps @ Half Heat Wattage: 11 FLA

Do not attempt to use or maintain this recycler until you have read and understand these instructions. Do not permit untrained persons to use or maintain this recycler. Failure to follow the guidelines and instructions in this user manual may create a protection impairment by disabling or interfering with the unit safety features. Serious injury may occur. If you do not fully understand these instructions, contact CBG BIOTECH for more information.

7-Gallon S600



WARNINGS and IMPORTANT SAFEGUARDS

Warnings and Symbols:



INSTRUCTION MANUAL SYMBOL. PLEASE REFER TO THE INSTRUCTION MANUAL FOR SPECIFIC WARNING OR CAUTION INFORMATION TO AVOID PERSONAL INJURY OR DAMAGE TO THE PRODUCT.



INDICATES HAZARDOUS VOLTAGES MAY BE PRESENT.



INDICATES A BURN HAZARD MAY BE PRESENT.



INDICATES PROTECTIVE EARTH SYMBOL.



INDICATES AC VOLTAGE ONLY TO BE CONNECTED TO UNIT.



INDICATES ON POSITION OF UNIT.



INDICATES OFF POSITION OF UNIT.

GENERAL INFORMATION

- ❖ To reduce the risk of fire, electric shock, and/or injury to persons when using electrical equipment, basic safety precautions should always be followed.
- ❖ KEEP THIS MANUAL IN A PLACE THAT IS READILY AVAILABLE TO THE USER
- ❖ Read and understand the Instruction Manual and Safety Data Sheet (SDS) for the solvent used in the Recycler.
- ❖ Observe all warnings posted in this manual and on the equipment
- ❖ Install, operate and maintain the equipment in accordance with this instruction manual.
- ❖ FIRST AID: In case of injury or exposure, see SDS for detailed information.
- ❖ FIRE FIGHTING: In case of fire see MSDS for detailed information.
- ❖ ACCIDENTAL RELEASE: In case of accidental release, see SDS for detailed information.
 - o Following appropriate environmental procedure. Promptly clean up any spills. Stop leaks only when there is no risk or danger.
- ❖ HANDLING AND STORAGE OF SOLVENT: For handling and storage, see SDS for detailed information.

Prior to Using the Recycler:

- ❖ Locate the S600 unit on a Hard, level, stable, non-slippery non-porous surface (no carpet or foam tiles).
- ❖ Allow a minimum clearance of 12" on all sides of the distiller and is placed in a well-ventilated room where the temperature does not exceed 75°F.
- ❖ Plug unit into a 120V grounded outlet. Plug the recycler directly into the outlet.
ABSOLUTELY NO ADAPTERS ARE TO BE USED.
- ❖ The unit is shipped with a line cord containing a protective earth ground. When the line cord is connected to an appropriate AC power source the cable will connect the chassis to earth ground.
- ❖ **WARNING: Only insert the main plug in a socket outlet with a protective ground (earth) contact. This protective ground must not be defeated by the use of an extension cord without a protective conductor.**
- ❖ Use only the supply cord that is supplied with the unit. No other cords are to be used. Inadequately rated supply cords can cause a fire hazard.
- ❖ Vent the units Overpressure Vent port to a proper central ventilation exhaust system or outside external source by connecting an appropriate length of solvent-compatible line or tubing to the supplied ½" hose barb connection (i.e.: Nylon). Secure the connection in place using a ½" retention clamp (i.e.: worm-clamp or equivalent). Assure connections are fully affixed and in place.
- ❖ Connect the Recycler to a 7gallon recovery carboy using the supplied 10" section of nylon tubing by inserting said piece into the appropriately labeled 3/8" push-to-connect port on the carboys cap. Vent the carboy to a proper central ventilation exhaust system or outside external source by connecting an appropriate length of 3/8" nylon tubing to the appropriately labeled 3/8" push-to-connect port on the carboy.
- ❖ This recycler is for recycling only the solvent(s) specified.
- ❖ Do not exceed the recycler's capacity.
- ❖ Do not immerse cord, plugs, or recycler in water or other liquid.
- ❖ Do not operate recycler with a damaged cord or plug.

- ❖ Do not use recycler for other than intended use.
- ❖ To allow adequate ventilation to the system, top and side vents of the machine must not be obstructed.
- ❖ Confirm that items listed on the packing list are present.
- ❖ Familiarize yourself with the recycler BEFORE you fill the boiling tank with contaminated or any solvent.
- ❖ Be sure you are following your facility's safety procedures for working with hazardous solvents.
- ❖ Please contact CBG BIOTECH before making any alterations to the recycler.
- ❖ This recycler is designed for **reclaiming** solvent only. Do not store waste material inside the unit.
- ❖ Move the main power switch located on the back of the recycler to the "on" position. To release the emergency stop, turn in the direction of the arrows (clockwise).

WARNING: Do not distill solvents that may include unstable reactives, such as nitrocellulose.

While Using the Recycler:

(For additional information, please see sections for helpful hints and troubleshooting)

- ❖ **Monitor** your waste. Try to maintain as close of waste to solvent ratios from run to run as possible.
- ❖ Reclaimed solvent should be **clear**. Please notify CBG immediately if you notice discoloration.
- ❖ The recycler has two different audio signals. The end of cycle signal, a rapid series of three one-second beeps, is heard only at the end of each cycle. A second audio signal may sound at any time the recycler is powered on. This indicates an alarm condition. Notify CBG if you hear this alarm during or at the end of a cycle, or see Additional Display Messages for the probable cause of the alarm condition.
- ❖ **If an audio signal is sounding, please note the message on the LCD display. Touch the on screen button to clear the audio alarm and follow the directions on LCD display.**

Non-Serviceable Components:

Customer serviceable items are restricted to the replacement of consumable items mentioned in this manual. The operator of the unit should report any abnormalities, or suspected abnormalities to a CBG Biotech Technical Representative. Under no circumstances should the customer or operator attempt to dismantle the unit to effect repairs

Flammable Liquids:

- ❖ Refer to the SDS of the solvent used for proper handling procedures.
 - o Use appropriate PPE when required.
- ❖ Use proper filling procedures as outlined in these instructions.

PRINCIPLE OF OPERATION

This CBG BIOTECH solvent recycler is currently designed to reclaim one type of solvent. This unit is calibrated to recycle one specific solvent: Vertrel XM. Do not use other solvents in this recycler.

The CBG BIOTECH recycling process employs **multi-component, simple distillation**.

Recycled solvent is collected at the collection container provided. Waste products are left behind in the boiling tank inside a disposable tank liner. Monitoring during the normal cycle is not required. Remaining waste may not be purified in this process, may contain trace amounts of solvent, and should be disposed of according to your facility's hazardous waste policy.

The recycler uses a 1" NPT fill port and a ball valve to close the system off for vacuum retention. The **maximum capacity** of the tank is **7 gallons**.

An **Touch Screen Display** on the front of the recycler provides information regarding how the cycle is proceeding. An internal air circulation system cools and ventilates the interior of the recycler.

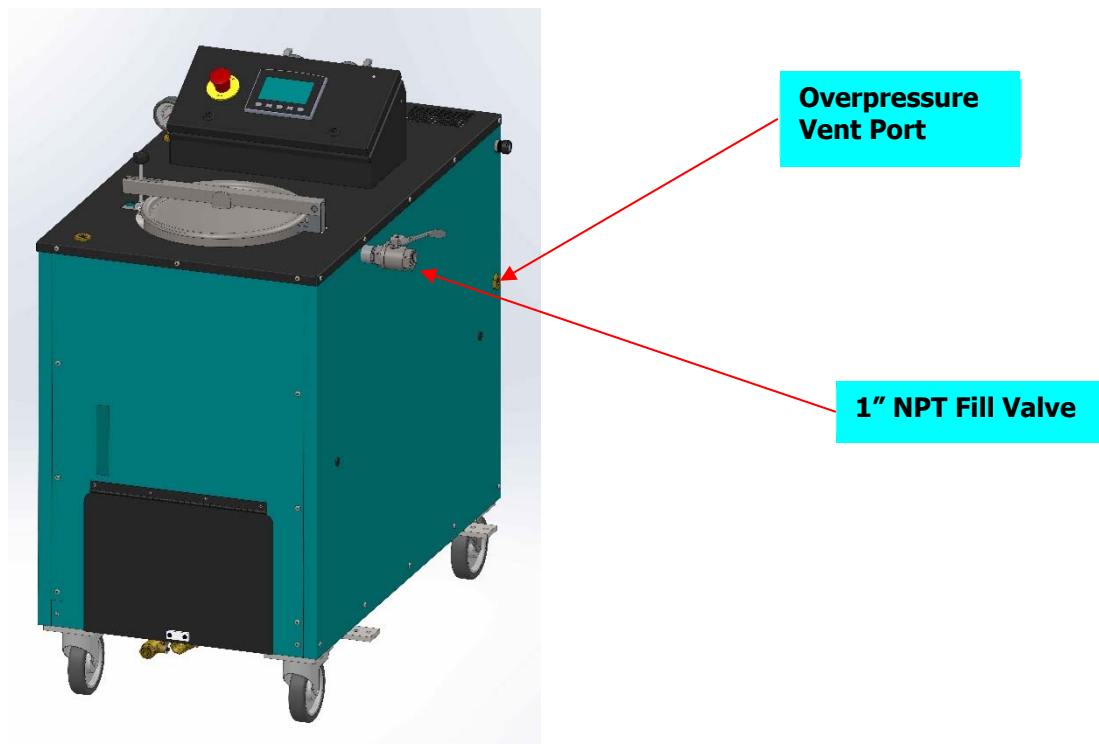
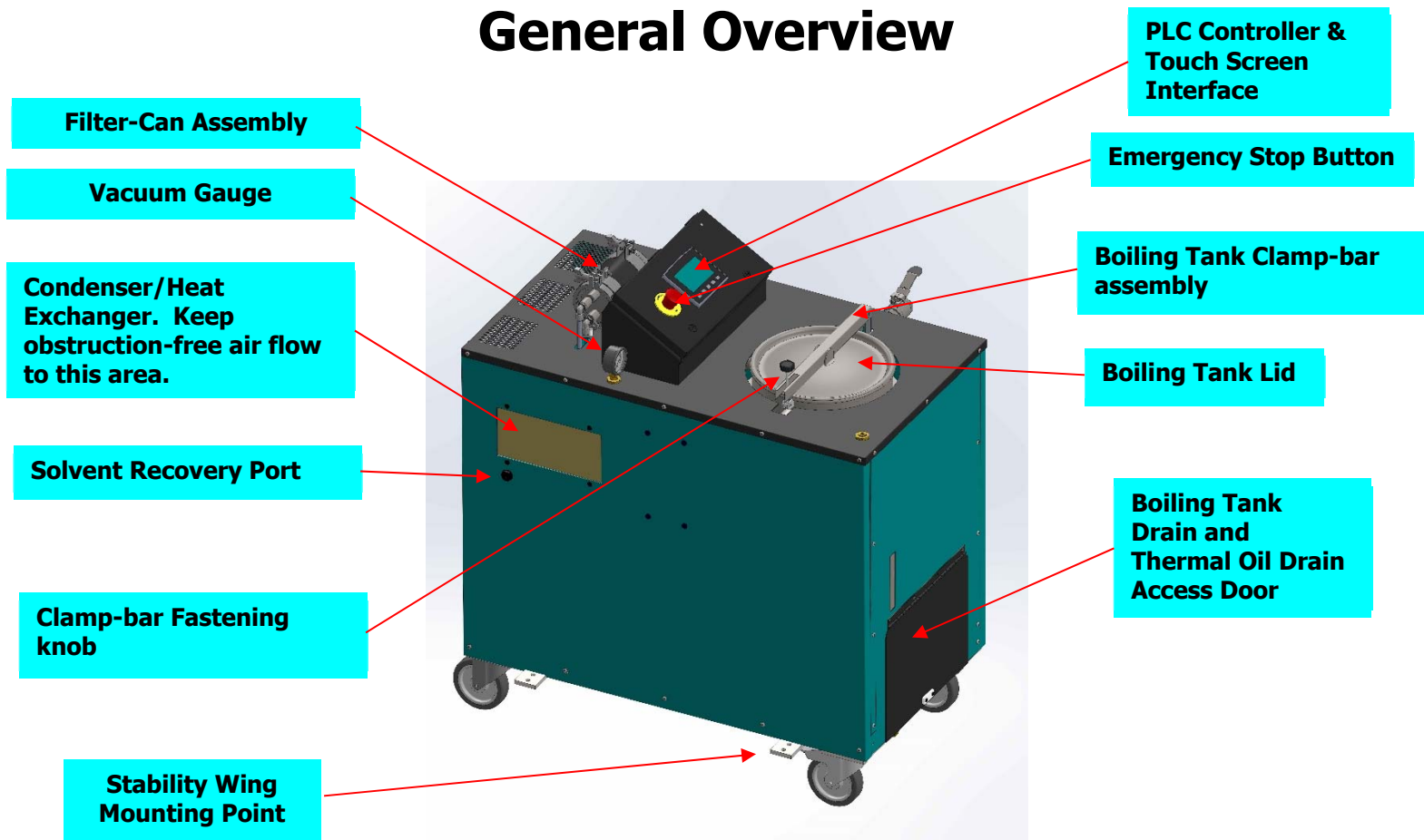
The **Emergency Stop** button serves to abort a cycle in the event of an emergency. When the Emergency Stop button is pressed, the recycler is still in a "power on" state.

The recycler contains an **Option Menu**. This menu allows the user to control/customize certain functions of the recycler. Each user may choose to change certain settings or leave them at their original factory settings. Your Technical Support Representative will assist you with changes you wish to make.

Environmental Conditions

This unit is intended for indoor use only. The unit should be used within an ambient operating temperature range of 18-35 °C.

7-Gallon S600 General Overview

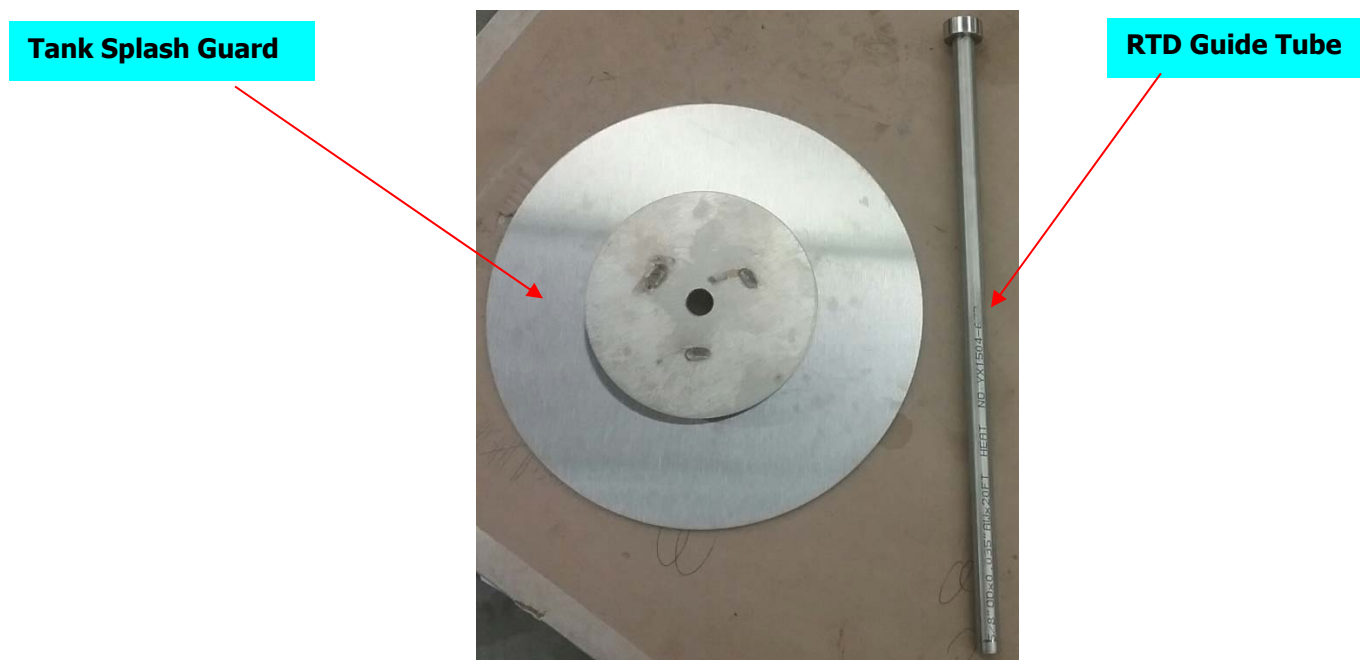


Unit Overview Continued.....

Internal Tank Splash Guard & RTD Guide Tube

As its name implies, the tank splash guard is placed inside the tank after the fill process and before the unit is ran to prevent waste product from boiling up and into the tank's solvent vapor evacuation port. This tank splash guard helps safeguard the internal vacuum pump against waste contamination and also acts to contain waste percolation to the lower regions of the tank, thereby keeping tank cleanup to a minimum. It is advised to clean the splash guard between runs using a dry rag & appropriate cleaning agent such as Acetone. Please follow appropriate handling instructions found on the SDS when handling any solvent including acetone.

The RTD Guide tube is inserted down through the hole in the splash guard and is used to ensure the RTD 1 sensor remains centrally located within the tank. The RTD 1 sensor wire located on the lid should be carefully fed down through the RTD guide tube as the lid is closed prior to operation. This ensures that the temperature sensor does not make contact with tank surfaces, which could cause erroneous readings and poor performance.



Installing the Tank Splash Guard & RTD Guide Tube

Only after the unit has been filled, should these items be installed! Failure to remove the splash guard prior to tank filling will result in tank overflow.

To install and remove the splash guard, tilt the splash guard up on the side opposing the 45 degree fill port. The splash guard can then be lifted directly out of the tank, as shown in the following figure.



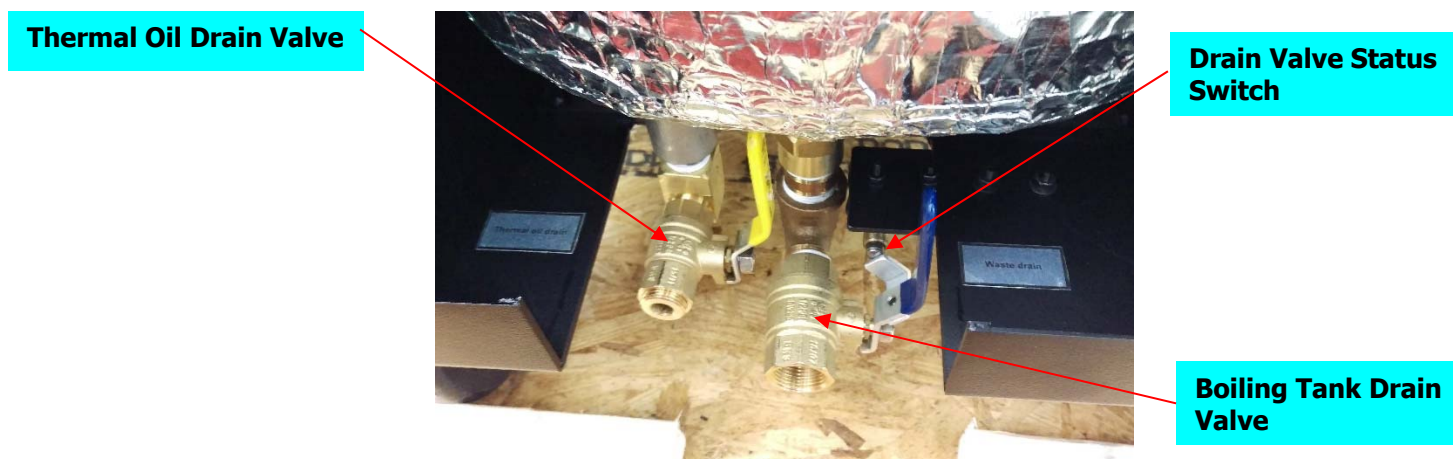
Install the RTD guide tube by simply dropping it thru the guide tube hole located on top of the splash guard as shown above, right.



Feed the RTD 1 sensor through the opening in the lid to ensure that the RTD wire does not kink as the lid is closed.

WARNING: Very Carefully and slowly open the lid once a run cycle has been completed to ensure hot waste is not flung off of the end of the RTD sensor. The use of safety glasses and appropriate personal protective equipment is highly recommended.

Open the black Drain Access door on the lower front of the recycler.



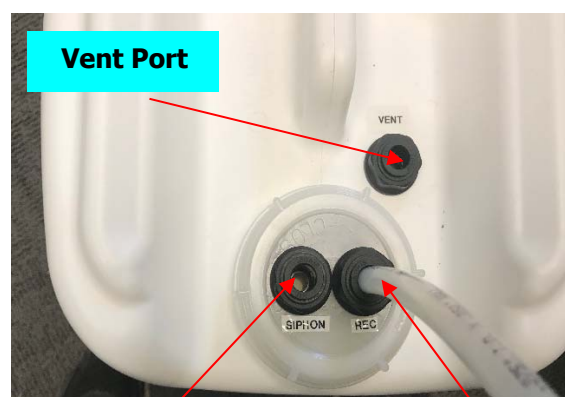
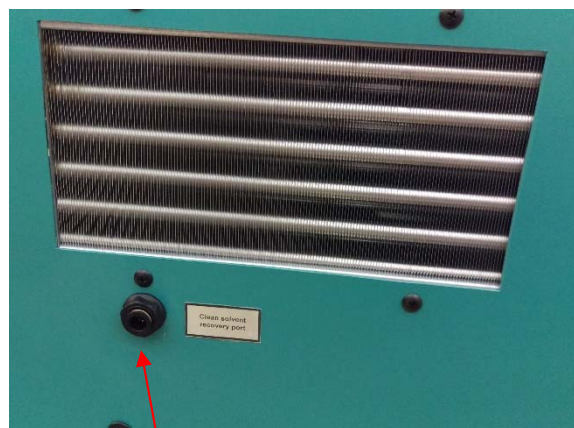
The Right (blue) Handle is the boiling tank drain. This should remain closed at all times. There is a status switch actuated by the valve handle that tells the controller if the valve is open or closed. The controller will prompt closure of the valve when appropriate. Always make sure the drain valve is CLOSED before filling the boiling tank.

The Left (yellow) handle is the Thermal Oil Jacket Drain. This valve is plugged to prevent accidental opening and thermal oil leakage. If a thermal oil change is needed, this valve will be used to drain the thermal oil.

Note: Thermal oil changes are typically recommended after 1,000 hours of unit operation. The thermal oil used in the unit must be XCEL THERM 445FP or equivalent.

Collection Container Connection

At the left side of the unit, find the Clean Solvent Recovery Port and attach the provided nylon tube as shown. These ports are 3/8" push-to-connect fittings.



Unit Overview Continued.....

Overpressure Port Connection

To maintain the proper UL Listing Safety Rating an Overpressure Port is provided. A 1/2" hose barb is provided. This port must be plumbed to your ventilation system. In the rare occasion of an overpressure condition, the pressure and solvent vapors will be vented properly when connected to a ventilation system. Otherwise, solvent vapors will be exposed to the surrounding area in the case of an overpressure condition thus potentially creating an unsafe work environment and possible hazardous location. Plumb to this port with tubing resistant to your solvent, ex: nylon.



Stability Wings

Attach four (4) Stability Wings with supplied hardware, to mounting points at the bottom of Recycler to ensure optimal stability.

Stability Wing Mounting Point



Stability Wing Mounted



Unit Overview Continued.....

Turning on the System

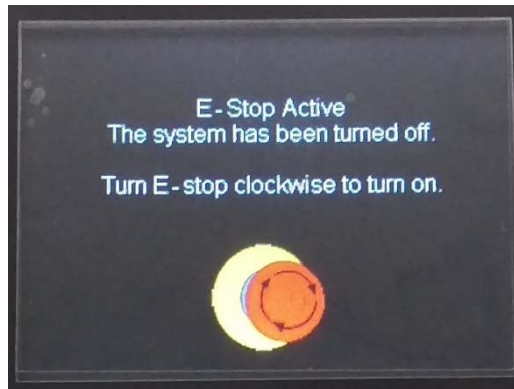
Plug the power cord into an appropriate 20Amp 120VAC outlet.

Find the orange power switch at the back of the control console. The power switch will illuminate when turned on. Up is on, down is off.



Emergency Stop Button

If the Emergency Stop Button is pressed, you will see this screen appear on the touch screen. Follow the instructions on-screen to disable the emergency stop condition.



The Emergency Stop Button only cuts power to the system outputs. Supply power is still live when the E-Stop button is Active.

Installing a Disposable Tank Liner

WARNING: Do not set running temperature of the unit over 170F when using disposable tank liners.

To keep the boiling tank clean, CBG supplies and has available disposable tank liners to use with the recycler. The boiling tank liners will aid to prevent the tank from exposure to resins and make cleanup a lot less labor intensive. The tank liners can be used more than once but with resins and similar contaminants, a single use is best.

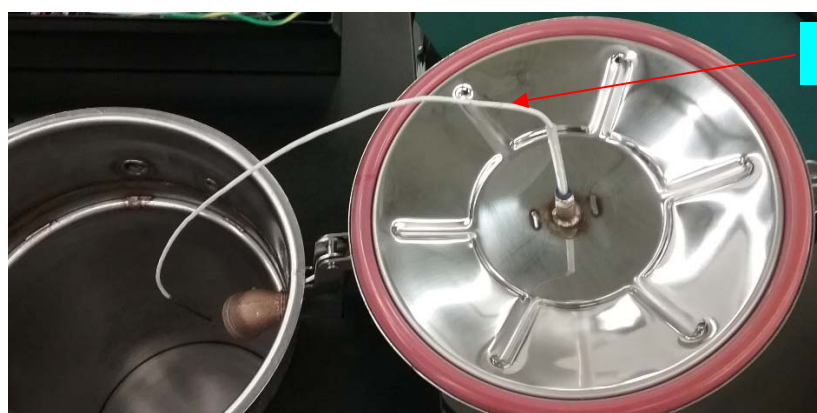
Open the tank lid. Remove the internal splash guard, RTD guide tube, and underlying bag retaining ring from the boiling tank.

Take the tank liner and, with your arms, insert the tank liner all the way to the bottom of the boiling tank. Prior to doing so, make sure the boiling tank is not hot, as injury could be caused by coming in contact with a hot surface.

Take the bag retaining ring and pull the two curved ends towards each other to decrease the circumference of the ring and insert the ring into the bag. The ring should sit on top of the welded in retaining ring shelf inside the tank. The bag retaining ring will keep positive pressure on the bag to keep it in place and open during a cycle.

Once the bag and retaining ring are in place. Adjust the bag so that approximately one inch of the bag is above the retaining ring, as shown below.

Once the top of the bag is adjusted properly. Reach down into the bag and spread the bottom of the bag out the best you can.



RTD1 Temperature Probe

FILLING INSTRUCTIONS

Automated/ Pump Filling Instructions

The Carbon 3D S600 is filled via connection to the 1" NPT port located on the side of the unit.

Manual Filling Instructions

Ensure the tank waste drain is closed by lifting the boiling tank Drain and Thermal Oil Drain Access Door on the front of the unit & visually inspecting the valve's handle is in the vertical, upright position.

Open the boiling tank lid by loosening the tank clamp-bar assembly by turning the knob in the counter clock-wise direction. Once loose, unlatch the boiling tank clamp-bar by folding the clamp-bar knob assembly out away from the lid. Grab the clamp-bar to lift the lid off of the boiling tank.

Remove the RTD Guide-Tube & Splash guard from the tank.

Install a disposable tank liner per instructions outlined in the section entitled "*Installing a Disposable Tank Liner*".

Pour waste product into the tank liner being sure not to overflow the capacity of the unit or above the bag ring level.

Reinstall the RTD Guide-Tube & Splash Guard before closing the lid per instructions outlined in the section entitled "*Internal Tank Splash Guard & RTD Guide Tube*".

HELPFUL HINTS FOR BETTER RECYCLING

Informed personnel

All persons operating this equipment should read this manual thoroughly before attempting to operate the CBG BIOTECH solvent recycler.

Possible odor of recycled solvent

If you notice an odor associated with your recycled solvent, the recycler is venting from an unknown location. Check the vent lines to your ventilation system. Check the boiling tank lid and also look for any solvent recovery leaks. The recycler should not be run when solvent odors are emitted. Be sure to remedy any vent or liquid solvent leaks before running another cycle.

Discoloring of solvents

Reclaimed solvent should be clear. Please notify CBG BIOTECH immediately of any discoloration. The operation temperature may be set too high, there are temperature settings that can be easily adjusted that will alleviate this problem. Overfilling the unit may also cause tinted recycled product

If you have any questions contact Technical Support, 1-800-941-9484.

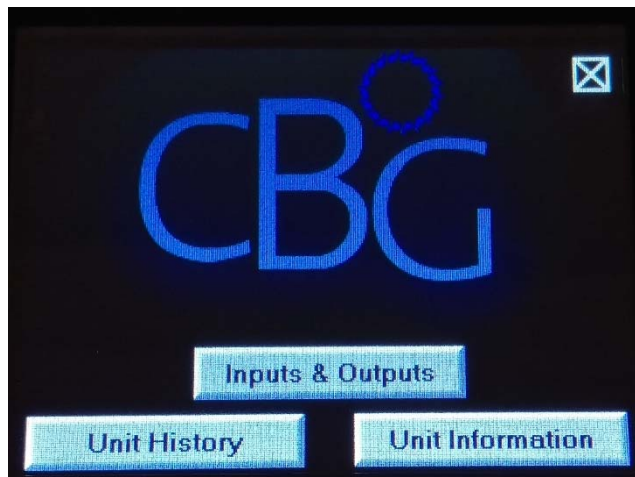
Preparing to Begin a Cycle

Place recycler in desired location. Plug the power cord into a 20 amp 120V outlet. Move the main power switch located on the back of the recycler into the "ON" position, the switch will illuminate and the PLC will start its boot-up process.

You will see a main menu screen on the PLC like the one below.

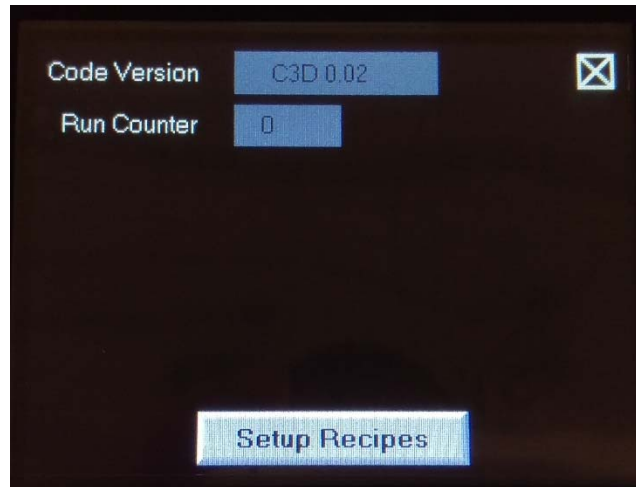


To check the recipe Settings, touch the **Options** button.



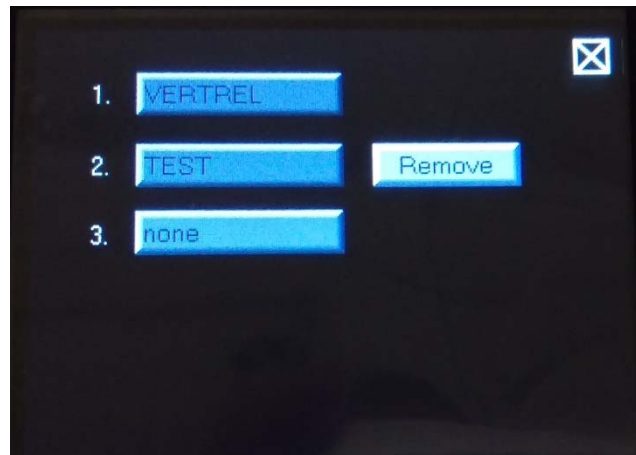
Touch the **Unit Information** button.

This screen tells us the Code Version and Run Counter. This info is primarily used for any future maintenance items. The run counter value will also coincide with the data file saved on the SD Card for each cycle that is run in the unit



Touch the **Setup Recipes** button

This is the Recipe Selection Screen. To modify or check recipe settings, touch the setting button you wish to modify or check.



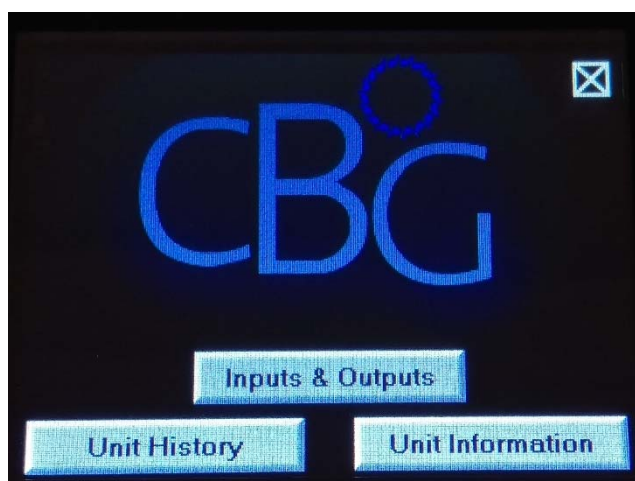
If you want to remove a recipe, touch and hold the **Remove** button for 5 seconds. This action will remove the recipe desired. Please note, it cannot be retrieved if removed.

Here we can modify all aspects of the Recipe.

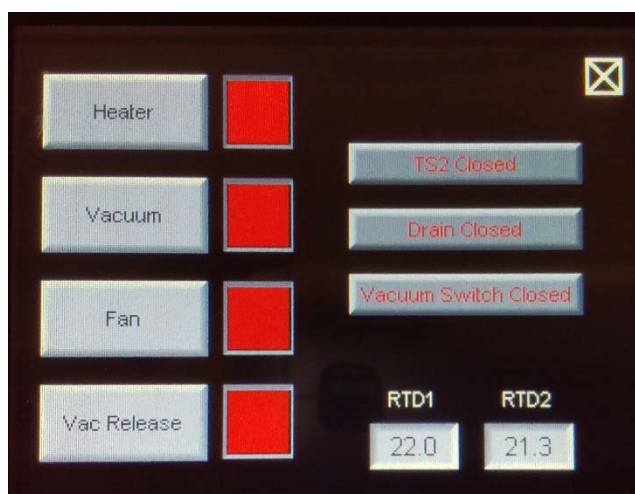
The screenshot shows a recipe modification interface. At the top, the 'Name' field is set to 'VERTREL' and is highlighted in blue. Below it, the 'Cycle Time' field shows '12:00' with 'hh:mm' above it. The 'EOC Temp' field shows '43.0'. The 'OP Temp' field shows '60.0'. The 'RTD1 Delay' field shows '00:30' with 'hh:mm' above it. Each of these four fields has a blue numeric keypad and '+' and '-' buttons to its right. A 'Save' button is at the bottom right. A small 'X' icon is in the top right corner.

- 1.) **Name** = This is the name of the recipe you are currently setting up. It will appear on the recipe selection screen.
 - a. To modify the Recipe Name, touch the name of the recipe and an entry pad will appear on screen.
- 2.) **Cycle Time** = This is the cycle time-out setting, the recycler will run no longer than what this time is set for
 - a. To modify the Cycle Time use the "+" or "-" buttons or you can also touch the time text and an entry pad will appear on screen
- 3.) **EOC Temp** = End Of Cycle Temp, this is the solvent temperature the controller will look for during a cycle to determine when the cycle is over. If the Cycle Time expires before the EOC Temp is reached, the cycle will end.
 - a. To modify the EOC Temp use the "+" or "-" buttons or you can also touch the text and an entry pad will appear on screen
- 4.) **Op-Temp** = Operation Temperature, this is the temperature setting for the thermal oil. This setting is in **Degrees Celsius**.
 - a. To modify the Op-Temp use the "+" or "-" buttons or you can also touch the text and an entry pad will appear on screen
- 5.) **RTD1 Delay** = The amount of time the controller delays using the EOC temp to determine End of Cycle. This setting is built in to allow the vapor temperature to equalize without ending the cycle early, a characteristic of a vapor in this particular machine configuration
 - a. To modify the EOC Temp use the "+" or "-" buttons or you can also touch the text and an entry pad will appear on screen.
 - b. When entering minutes on this setting be sure to enter as follows "0 – 0 – 3 – 0"
 - c. This setting is default and should not be changed. If you make a new recipe, this setting should always be set to 30 minutes. We will only adjust this setting if absolutely needed.
- 6.) When creating or modifying a recipe always be sure to touch the **Save** button to save your new or modified recipe settings. If you make any changes, the changed text field will change to a blue background. This lets you know that a setting was changed and it must be saved. If the "X" button is touched before the recipe is saved, you will lose your changes.

Touch the "X" button until you get back to the Options Screen.



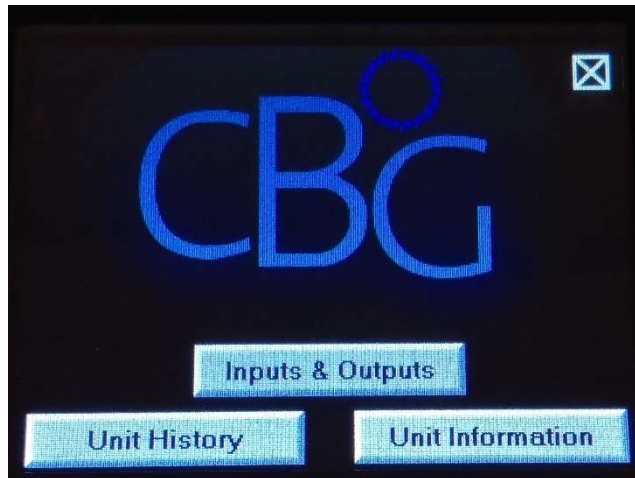
Touch the **Inputs & Outputs** button



This screen allows manual control of the outputs and visualization of the input status.

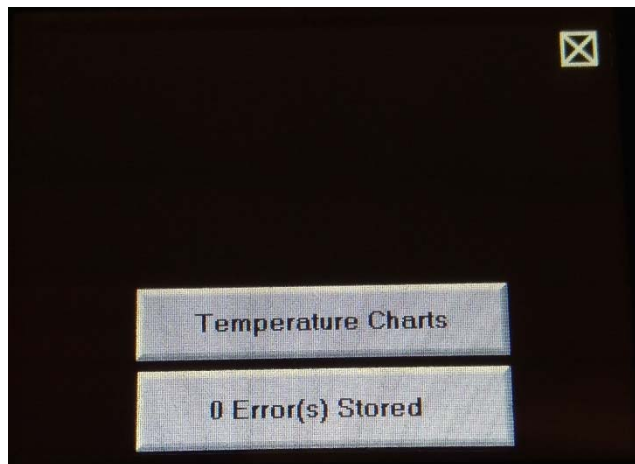
- 1.) Touch the **Heater** button to turn on the heater, red square will turn green. Touch the button again to turn the output off.
- 2.) Touch the **Vacuum** button to turn on the vacuum pump. Touch the button again to turn the output off.
- 3.) Touch the **Fan** button to turn on the heat exchanger cooling fans. Touch the button again to turn the output off.
- 4.) Touch the **Vac Release** button to turn close the vacuum release valve. Touch the button again to turn the output off.
- 5.) The three text boxes on the right show the status of the inputs, if an input changes state the text will change and its color will change from red to green.
- 6.) **RTD1** is the temperature value at the temperature probe in the boiling tank, this measures the solvent and waste temperature directly.
- 7.) **RTD2** is the temperature value at the temperature probe in the thermal oil, this measures the thermal oil temperature. This temperature is what the controller uses to determine the Op-Temp setting in the recipe.

Touch the "X" button to return to the Options Screen



Touch the **Unit History** Button

This screen will primarily be used for maintenance purposes



Here we can view any errors that may occur and the recorded temperature chart of each run. Touch the "X" button a few times to return to the main screen.

Starting a Cycle



If you are ready to start a cycle; make sure the collection container is attached to clean solvent port and double check all of the vent tubing for proper connections.

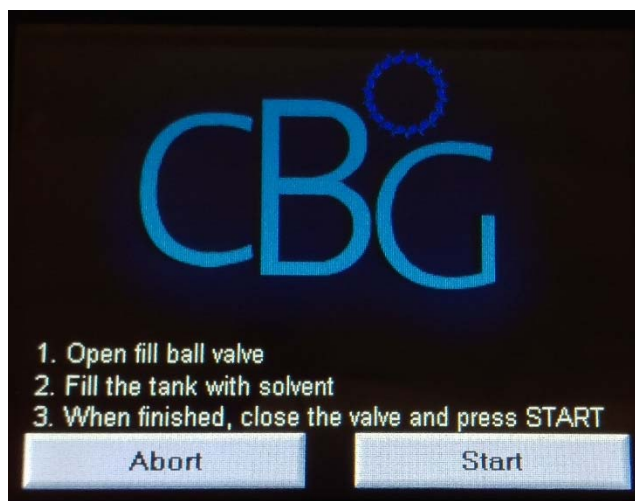
You can then touch the **Start** button.

This screen shows you a reminder to make sure the boiling tank drain valve is closed.



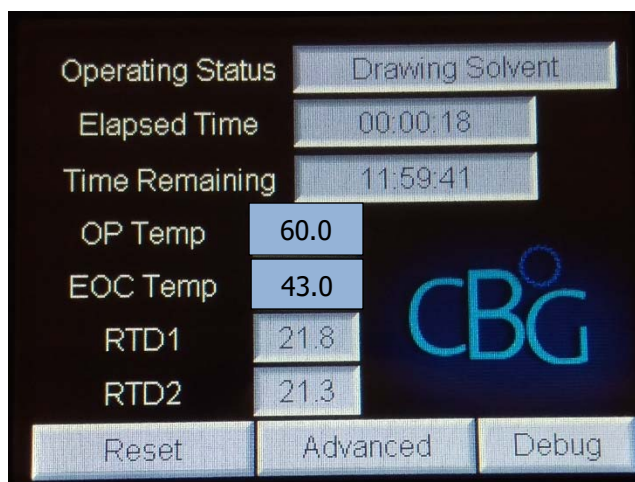
Once verified, touch the **Continue** button.

Follow the directions on the screen, if you need to stop the start cycle process, touch the **Abort** button.



Touch the **Start** button when the boiling tank is full and the fill port valve is closed. Always remember to close the fill port valve, if this valve is not closed a vacuum seal will not be achieved on the system.

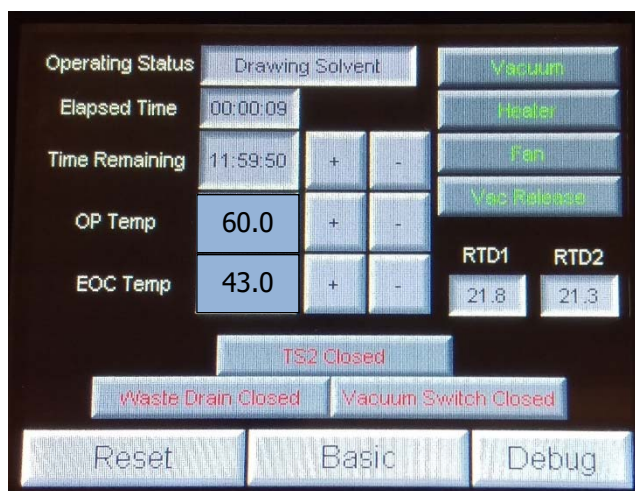
You should see this screen when the cycle starts.



All cycle status is displayed here, along with current recipe settings and live temperature readings at RTD1 (solvent) and RTD2 (thermal oil). For more information on-screen during a cycle, touch the **Advanced** button.

This screen shows you advanced information during a cycle. This includes live input and output status on top of what the Basic information screen shows. This is also where you can make changes to the current recipe on-the-fly while the cycle is running.

You can use the "+" or "-" buttons to add or remove time from the cycle time remaining. Use the "+" or "-" buttons to increase or decrease the current Op-Temp or EOC Temp settings. Remember, any changes you make here will be automatically saved to the currently running recipe.



To return to the Basic Information Screen, touch the **Basic** button.

To abort the cycle, touch the **Reset** button. The red E-Stop Button on the front of the console can also be used to abort a cycle if needed.

The **Debug** button should only be used during troubleshooting, if necessary.

CLEANING INSTRUCTIONS

Acetone or equivalent cleaning agent should be used to clean the interior of the boiling tank & filter-can assembly.

WARNING: Utilize safety methods described in the SDS for intended cleaning agent as well as appropriate personal protective equipment.

EQUIPMENT MAINTENANCE & SERVICE

Power off the unit using the main power switch located on the back of the control panel and unplug the unit before performing any service or maintenance.

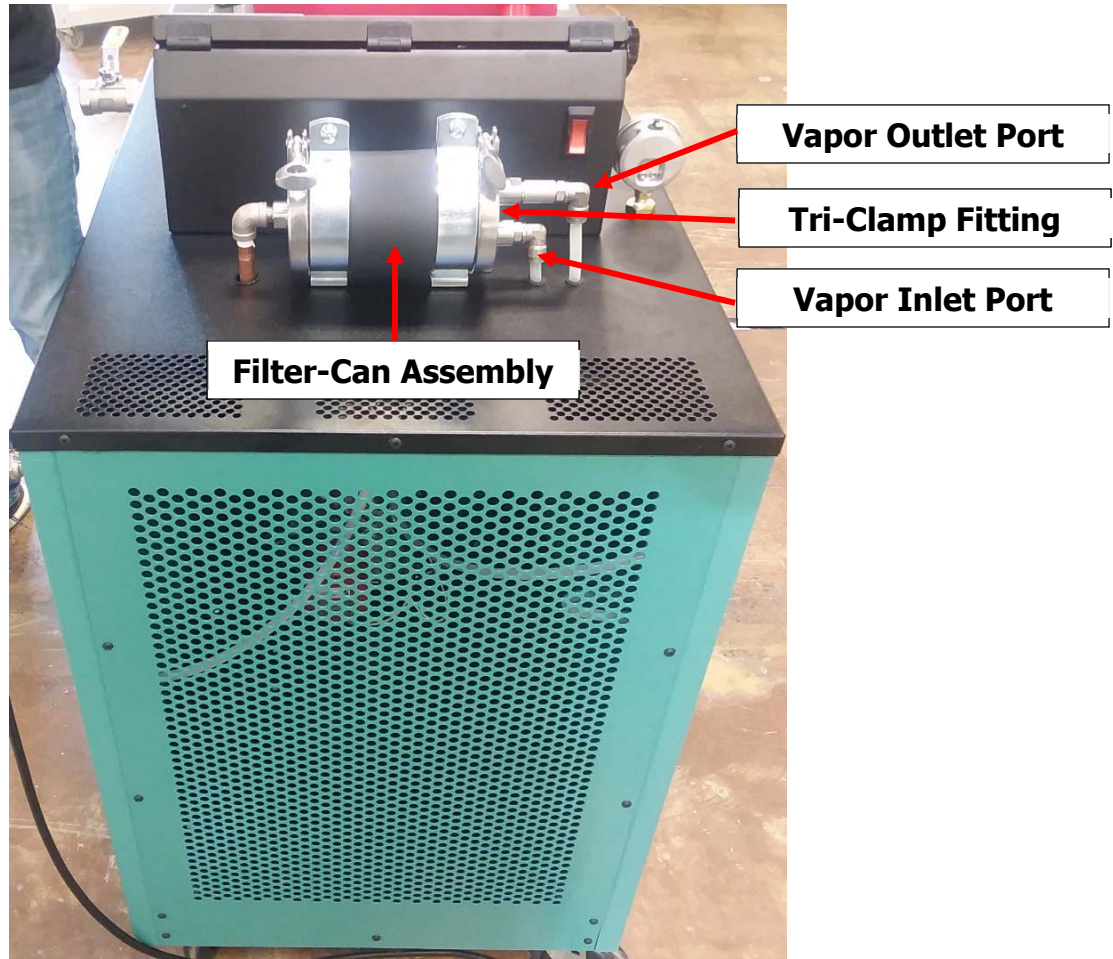
When service is completed, verify all body panels are installed as well as the control panel front cover is closed and locked.

REPLACEMENT FUSES

The unit contains (2) different types of fuses located inside the control panel. Verify machine power is off and power cord is disconnected before attempting to replace fuses. The fuse types are listed below.

- 1 Amp type FLQ – Time Delay Fuse
- 1 Amp type KLDR – Class CC Time Delay fuse
- 8 Amp type KLDR – Class CC Time Delay Fuse

SERVICING THE EXTERNAL FILTER CAN ASSEMBLY



CAUTION: Service of the S600's Filter-Can assembly should be performed by trained personnel only! Appropriate latex gloves, safety glasses & respiration mask should be worn in doing so. (Including other personal protective equipment as required.)

CAUTION: Do not service the filter-can directly after a run cycle or while the unit is still hot! Allow 24 hours after operation of the unit before performing the following steps and verify the filter can is cool.

The external Filter-Can assembly should be drained & cleaned every 3 months as follows:

- 1.) Remove the access panel on the rear of the unit by removing the 12 retention screws with a Phillips-head screw driver.
- 2.) Remove the connected 3/8" vapor inlet & outlet tubes. With one hand, push up on the push-to-connect retention collar & with the other, pull down on said piece of 3/8" nylon tubing from within the unit. Repeat this for the remaining connection.
- 3.) Using the thumb screw, loosen the 3" Tri-clamp located on the same end of the filter can assembly.

CAUTION: The can will likely contain some volume of liquid waste product. Prepare the surface of the distiller by placing clean LINT-FREE rags or paper towels beneath the tri-clamp connection.

- 4.) Remove the 2 pieces of steel wool packing located inside the unit.
- 5.) Soak said steel wool pieces in clean Acetone bath to remove any accumulated waste residue.
- 6.) Wipe out all internal can surfaces with clean, lint-free clothe.
- 7.) Remove wool packing from Acetone bath & allow them to air-dry or blow them clean with low-pressure compressed air.
- 8.) Once dry, return the wool packing to the canister housing.
- 9.) Ensure the end-cap gasket is in place & properly seated at the end of the filter-can.
- 10.) Hold the end-cap in place & use the tri-clamp fitting to secure it to the filter-can.
- 11.) Re-connect the 3/8" vapor inlet & outlet tubes by pushing each tube into the appropriate push-to-connect port from within the unit.

Note: Tug firmly on each tube to ensure they are securely installed.

- 12.) Re-install the rear access panel to the rear of the unit & secure it in place with the 12 retention screws using a Phillip's-head driver.

COMMON INQUIRIES

The unit will not turn on – No Touch Screen display

Be sure the recycler is plugged in, and the main power switch is in the "ON" position and illuminated.

Check the outlet. It could be bad or tripped a breaker. Move the recycler to a different power source with adequate voltage (120VAC / 20A).

The power switch may be faulty, must be replaced.

The power connector on the controller may be loose. With the power off, open the console lid and find the two green connectors on the back of the controller and make sure they are securely fitted.

The controller may be faulty, must be replaced.

The unit will not fill

Open the Fill Valve.

The recycled product is not colorless

Note the message on the Touch Screen display.

Confirm the recycler was not overfilled.

Check to be sure the recovery container was not soiled prior to the cycle. Remove the recycled material, clean the container, then recycle the discolored solvent again.

The Op-Temp setting may be too high. Try not to set the Op-Temp higher than 70°C

Computer may need reinitialized - Contact Technical Support.

The product volume is less than expected

Verify the cycle completed with "End of Cycle" Status on screen.

Verify the RTD 1 sensor wire is not kinked at the top of the RTD guide tube preventing the sensor from reaching the proper solvent level, and is properly installed into the RTD guide tube.

Check the Touch Screen display message. An alarm condition may have occurred or a power interruption was experienced. If an alarm condition is displayed, follow up based on the specific alarm. If a power interruption occurred, determine if the cycle should be continued, or abort the current cycle and drain the interior tank before starting a new cycle.

Check the collection. Poor results may be a result of poor collection.

Monitor another cycle. Be sure there are no venting issues or liquid solvent leaks. – Contact Technical Support.

Computer may need reinitialized - Contact CBG Technical Support.

The cycle did not finish

Check the LCD display for Alarm Condition. Determine the appropriate action based on the specific alarm displayed.

Screen is dark – no display. Verify the main power switch is in the “ON” position and the Emergency Stop button is released. Check the power source, move recycler to another outlet.

The unit smells like solvent during operation

Check the vent plumbing and monitor the next cycle for odor.

Check the recovery container. Verify that the lid on the recovery container is closed tight.

Check for evidence of a spill or liquid solvent leak in the area.

Check boiling tank lid for leaks.

Explore other sources of open solvent.