



GUS[®]

Model G32-S
Model G32-E
Disinfection Soak Stations

Operator's Manual



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Principle of Operation

The GUS® Disinfection Soak Station provides for the safe soaking of heat sensitive instruments in high-level disinfectant solution. The system's blower forces air through a carbon filter which removes toxic vapors from the high-level disinfectants.

Do not use the system for any purpose other than its intended use.

Safety Precautions

Disconnect power before replacing filter or when servicing the unit.

Refer to the SDS of the high-level disinfectant that you are using for additional safety precautions.

Warning Symbols

The meaning of the labels and symbols that appear on the packaging and/or the system are as follows:



Dangerous electrical voltage



Hazardous area



Protective Grounding

Signal Words

The following signal words are used throughout this manual:

WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices or potential equipment damage.

NOTE Indicates additional helpful information.

General Information

The GUS Disinfection Soak Station eliminates vapors from high-level disinfectants and contains splashes and spills. Blowers pull fumes into a patented carbon filter, where they are adsorbed and eliminated. Clean air is returned to the room through the top louver panel. These systems are available as Standard Countertop models (*see figure1*), or as Space Saver models which are designed to fit under an upper wall cabinet.

The GUS System with the standard filter is designed to remove fumes from:

- Glutaraldehyde
- *Ortho*-phthalaldehyde (OPA)
- Hydrogen Peroxide

Optional filters are available for:

- Peracetic Acid
- Formaldehyde
- Hydrogen Peroxide

WARNING Failure to properly follow the instructions in this manual may result in damage to the system and/or scopes.

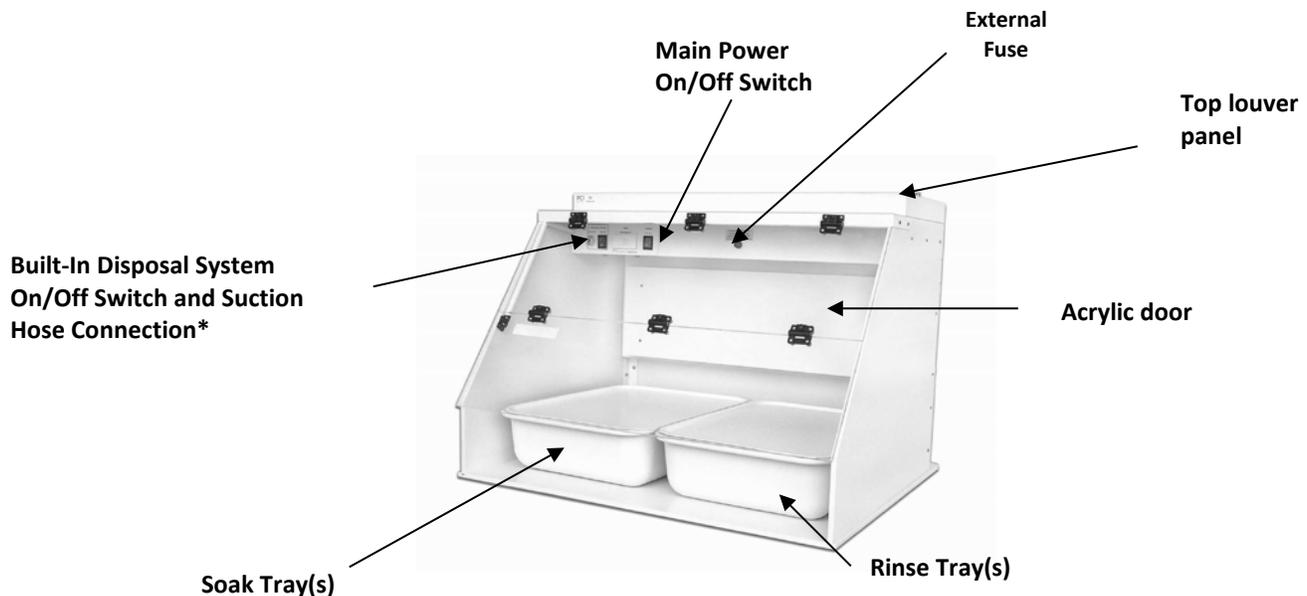


Figure 1: GUS Model G32-E with Tray(s)

Installation and Setup

Upon Delivery

Match all items in the package with those listed on your packing list. Inspect each item for damage. Fill tray(s) (if provided) with water and check for leakage.

If any components are damaged or missing, or if you have any questions, call CIVCO Medical Solutions at 1-800-445-6741. Do not use the system.

Installation

Countertop models

1. Place the white polypropylene base on the countertop with the grooves facing up. Note that the grooves should be on the sides and back.
2. Gently lift the system by the two side straps and place into the grooves on the base. There must be a clearance of 1" above the unit.
3. Plug the system into a standard wall outlet.
4. Remove the protective covering from the acrylic doors.
5. Open the acrylic doors and place the soak and rinse tray(s) inside.

Mobile models (Assembly of Cart Required)

1. Remove the cart from the top of the box and place onto a level surface. Assemble as directed.
2. Gently lift the system out of the packing box and, with someone holding the cart, place the system on top.



CAUTION It may require two people to lift the system and place it onto the cart.

3. Plug the system into a standard wall outlet.
4. Remove the protective covering from the acrylic doors.
5. Open the acrylic doors and place the soak and rinse tray(s) inside.

WARNING Extreme caution should be taken if moving the mobile system while it contains high-level disinfectant.

Filling the High-Level Disinfection Tray(s)



CAUTION Make sure to turn the system **ON** before pouring high-level disinfectant into the soak tray(s).



CAUTION Always leave the system running when high-level disinfectant is in the soak tray(s).



CAUTION Keep the soak tray(s) covered as often as possible, to minimize evaporation of the disinfectant.



CAUTION Change the rinse water at least once per day.

1. Switch system **ON** using the **GREEN** lighted power switch located on the inside front of the system.
2. Open the front acrylic door. This automatically increases the fan speed, drawing more air through the system.
3. If three tray(s) have been provided with your system, one or more tray(s) are for the high-level disinfectant, the third tray is for clean rinse water. The rinse water tray should be placed in the middle of the Gus system.

WARNING Not all tray(s) are autoclavable. Check before autoclaving.

4. Remove the lid off the high-level disinfectant tray(s) and set aside.
5. Prior to pouring the high-level disinfectant, read carefully and follow all label instructions.
6. Activation of the high-level disinfectant (if required) should be done inside the unit with the system turned **ON**. Once activated, pour the solution into the soak tray(s). The rinse tray(s) is used for initial rinsing of instruments prior to removal from the system. Fill rinse tray(s) with clean rinse water – change rinse water at least daily. Refer to your instrument's instruction manual regarding use of sterile water for rinsing.



CAUTION It is important that you keep the soak tray(s) containing high-level disinfectant covered at all times to prevent evaporation.

Operation

Placing Instruments into the System

1. All scopes and instruments should be pre-cleaned and dry prior to soaking in high-level disinfectant.
2. Open the front acrylic doors of the system and remove the lid on the soak tray(s).
3. Gently place your instruments into the tray(s) containing high-level disinfectant.
4. Follow instrument manufacturer's instructions for flushing lumens and channels of scopes.
5. Replace lid(s) and close acrylic door.

Removing and Rinsing Instruments

1. When done soaking, open the front acrylic doors and remove the lid from the soak tray(s).
2. Gently lift instruments from the soak tray(s) and shake off excess disinfectant.
3. Place instruments into the rinse tray(s) **inside the GUS system** to remove residual chemical.

NOTE: **If three trays are have provided with your system, the rinse water should be placed in the middle of your GUS station.**

4. Remove from rinse tray(s) and conduct final rinsing and wiping procedures as you normally do.
5. Refer to your instrument's instruction manual for proper rinsing and storage procedures.
6. You must leave the system running at all times when the soak tray(s) contains high-level disinfectant.

Disposal of Disinfectant

In some states and municipalities, it is illegal to dispose of used disinfectants without first deactivating them. Deactivation also protects the user from exposure to splashes and spills. CIVCO Medical Solutions manufactures **Glute Out**®, a glycine-based neutralizer (part# 610-1045).

After the disinfectant is deactivated, it is safe to dispose of down the sink/drain with cold water running.

Thoroughly clean and rinse out the container. With the unit turned on, put the soaking container back into place and refill it with fresh high-level disinfectant.

Built-in Disposal System

NOTE: **Laboratory (L) Models do not include a disposal system.**

The built-in disposal system is ideal for emptying the soak tray(s) from inside the system, without the risk of exposure, splashes or spills.

A disposable in-line filter is attached to the suction hose for the disposal system, which will prevent lint and small debris from reaching the pump. If the filter becomes clogged, you will notice a decrease in water pressure. Replacement in-line filters can be purchased in packs of five from CIVCO Medical Solutions.

1. Verify that the main power switch is ON before disposing of high-level disinfectant.
2. We strongly recommend the use of neutralizer (***Glute Out***) when using OPA or glutaraldehyde to prevent splashes, spills, and exposure to vapor. Add the required amount of neutralizer into the soak tray(s) containing high-level disinfectant and allow sufficient time for neutralization to take place.
3. Insert the clear plastic suction hose (shorter hose with in-line filter) into the quick disconnect fitting located next to the disposal On/Off switch on the front inside of the system. Place the other end of the hose into the soak tray(s).
4. Insert the discharge hose into the quick disconnect fitting located on the left side of the system. Place the other end of the hose into the sink or hopper drain and turn on the **cold** water

NOTE: **DO NOT USE HOT WATER**

5. Switch on the pump.
6. After all the disinfectant is pumped out, add clean water to the soak bowl, rinse and pump out. Use the suction hose to ‘vacuum’ all liquid from the bowl.

WARNING **Failure to fully rinse out disposal system after each use may damage the system and void your warranty.**

NOTE: **If three trays are have provided with your system, the rinse water should be placed in the middle of your GUS station.**

Switch off the pump and disconnect the suction and discharge hoses from the disinfection soak station. Store until needed again

WARNING **The disposal system on your GUS system is not designed to pump solids. A disposable in-line filter on the suction hose must be in place at all times. Failure to do so may damage the pump and void your system warrant**

Filter Life

GUS® has a patented filter that, in normal everyday use, will have a six-month life. Call CIVCO Medical Solutions at 1-800-445-6741 to purchase additional filters

Filter Replacement



CAUTION Turn the main power **OFF** and disconnect the power cord from the electrical outlet.

NOTE: It is recommended that the filter change take place at the time of replacing the disinfectant.

1. Turn the main power switch **OFF** and disconnect the power cord from the electrical outlet.
2. Remove the top louver plate (*see figure 2*) located at the top of the machine by unscrewing the acorn nut with a 5/16 nut driver. Note the G32 has a single top louver plate.
3. Remove the old filter. Put the used filter into a plastic bag and dispose of it with other non-hazardous waste. This does **not** need to be red tagged.
4. Install new filter and replace louver panel.



Figure 2: Top Louver Plate



CAUTION The system's carbon filter must be replaced every six (6) months.

Prior to changing the filter, neutralize and dispose of any high-level disinfectant in the soaking tray(s), and remove all equipment from the system.

Disconnect the system's power supply before removing the filter.



CAUTION An F321-A filter is required for use with hydrogen peroxide or peracetic acid based high level disinfectants.

Cleaning the System

WARNING

When cleaning the system, always wear appropriate personal protective equipment. Potentially infectious material adhering to the unit could pose an infection control risk.



CAUTION Do not use solvents to clean the acrylic door. Doing so may damage the doors. Do not wipe surfaces with hard or abrasive materials. Doing so will scratch the surface

1. Turn the power switch **OFF** and disconnect the power cord from the wall outlet.
2. To clean metal surfaces: Use a clean, lint-free cloth moistened with a mild detergent solution and water. A mild solvent may be used on these surfaces for difficult-to-clean areas
3. To clean the HDPE plastic (side panels), use mild detergent solution such as dish washing liquid and water. Hard to clean spots may be cleaned with a mild solvent if extra care is taken.
4. Make sure that the unit is completely dry before use.

Rinse Water

Once removed from the disinfectant solution, the instruments/scopes must be thoroughly rinsed with water to remove any disinfectant residue. The initial rinsing **must** be conducted in the GUS® system in order to eliminate risk of exposure to residual chemicals left on the instrument

NOTE:

Refer to your instrument or scope's manufacturer instruction manual regarding the use of sterile water.

Limited Warranty

CIVCO Medical Solutions warrants the GUS Disinfection Soak Station™ to be free of defects in materials and workmanship under normal use, for a period of one year from the date of delivery. This warranty does not include filters, acrylic, or disposal pump unless it can be determined that failure is due to defects in material or workmanship.

If the system is not working correctly or is defective, contact CIVCO Medical Solutions, and we will repair or replace the unit at our option during the warranty period.

CIVCO Medical Solutions assumes no liability for consequential damages of any kind as a result of the use or misuse of the system by the purchaser, the purchaser's employees, or any others.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, OBLIGATIONS OR OTHER LIABILITIES EXPRESSED OR IMPLIED, AND THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARISING FROM A COURSE OF DEALING OR USAGE ARE SPECIFICALLY EXCLUDED.

This warranty does not cover conditions and damages resulting from any of the following:

- Improper installation, delivery within the facility, or maintenance.
- Any repair, modification, alteration or adjustment not authorized by the manufacturer.
- Misuse, abuse, accidents or unreasonable use.
- Incorrect electric current, voltage or supply.
- Failure to follow proper procedures for use outlined in this manual.
- Consequential or incidental damages sustained by any person as a result of any breach of this warranty.

Some states do not allow the exclusion or limitation of consequential or incidental damages, so the above exclusion may not apply.

Registration Card

Please complete and return the attached Warranty Card to CIVCO Medical Solutions. Call 1-800-445-6741 to purchase additional filters.

APPENDIX A: TROUBLESHOOTING

Quick Troubleshoot

If the GUS Disinfection Soak Station is not running, check the following:

1. Ensure that the unit is plugged into a live wall outlet.
2. Make sure the **green On/Off** switch is on. The switch will be illuminated when on.
3. Push the white 'test' button on the GFCI, located next to the On/Off switch. Then push the white 'reset' button. This should restart the system and the **green On/Off** switch should now be illuminated.
4. In the event that the system is still not working, you will need to check the fuse, which is externally mounted.
5. Unscrew fuse holder from the unit. The fuse holder is located to the right of the faceplate next to the fuse label. If damaged, replace with a standard 3-amp fuse.
6. If the System is still not working, call CIVCO Medical Solutions at 1-800-445-6741.

If you can still smell fumes from your high-level disinfectant while using the GUS system, check the following:

1. Both the soak and rinse tray(s) are inside the disinfection soak station. It is very important that there is always a rinse tray(s) containing clean water for the initial rinse. Failure to do so will result in exposure to vapor when transferring the instrument to the sink for rinsing.

NOTE: If three trays are have provided with your system, the rinse water should be placed in the middle of your GUS station.

2. The system is being left on at all times while disinfectant is in the soak tray(s).
3. Lids are placed on the soak tray(s) when not in use and during the soaking cycle.
4. Fresh disinfectant is being activated and poured into your soak tray(s) while **INSIDE** the system, with it running on high speed.
5. Disinfectant is being neutralized **INSIDE** the system prior to disposal.
6. Filters have been changed as recommended (every six months with daily use).
7. Spills outside of the system are immediately neutralized and cleaned up.
8. No other disinfectants are being used in the room, Including inside an Automated Reprocessing System.
9. All personnel using the system have been fully trained on its use.
10. Verify that the system switches to the high-speed setting when you open the front acrylic door. You should hear a marked increase in the noise level.

If the disposal pump is not working, check the following:

1. Check to make sure that the in-line filter on the suction hose is not clogged. If it is, you must replace the filter. Contact CIVCO Medical Solutions for replacement in-line filters.
2. If the disposal pump is still not working, call CIVCO Medical Solutions at 1-800-445-6741.

APPENDIX B: SITE REQUIREMENTS

Environmental Conditions

- For indoor use only.
- Altitude up to 2,000 meters.
- Temperature range: 41 °F to 104 °F.
- Maximum relative humidity: 80% for temperatures up to 87.8 °F, decreasing linearly to 50% relative humidity at 104°F.
- Main supply voltage fluctuations not to exceed +/- 10% of the nominal voltage.
- Insulation over voltage category II.
- Pollution degree 2.

Supply Ratings

AC 110-120V 0.5A - 2.0A 50/60 Hz
 Fuse: 250V 3.0 A 5X20 FSF Panel Mounted

Main Power/Ratings Plate

The main power switch is located on the inside front panel of the system (see figure 3). The switch is illuminated when the system is ON. The power cord plugs into a regular wall outlet. The fuse is a 250V 3.0 A 5X20 FSF, panel mounted.

The ratings plate and serial number are located on the right side of the system.

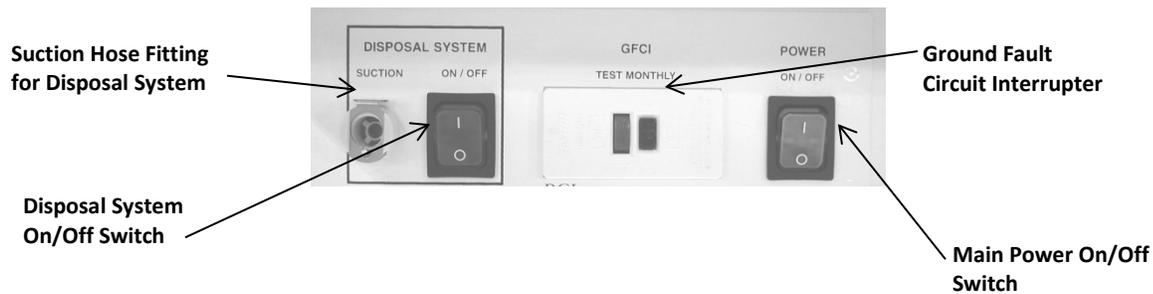


Figure 3: Front Panel of the System

Actual Size

Model	Air Treated (CFM)	FPM w/door closed low	FPM w/door open high	Voltage	Current w/door closed	Current w/door open	Dimensions (outside) H x W x D	Dimensions (inside) H x W x D
G32-E	220	120	50	110V 50/60Hz	40 watts	75 watts	26.5”H 33.25”W 27.5”D	22”H 32”W 22”D
G32-S	220	120	50	110V 50/60Hz	40 watts	75 watts	16.5”H 33.25”W 27.5”D	14”H 32”W 22”D

APPENDIX C: GUS PRODUCT SPECIFICATIONS

UL Approval

LABORATORY
ELECTRICAL
EQUIPMENT
FOR USE IN
HEALTH CARE
APPLICATIONS



USA and Canadian Standards Approved.